

# KING AIR 90 SERIES

90/C90/C90GT/C90GTi/C90GTx/E90



## Available Performance Enhancements



Aluminum 4- Blade Swept Props (4-SBTP)



Dual Aft Body Strakes (DABS)



Crown Wing Lockers (CWLS)

## Propeller Details For King Air C90 (all), E90

- Propeller: 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

## Intallation Hours And Pricing

A90, B90, C90, C90GT, C90GTi, C90GTx, E90	MSRP PRICE	INSTALL HOURS	NET WEIGHT
Aluminum 4-Blade Swept Prop (4-SBTP)	\$140,548	35 hrs	
Replaces OE-Installed Hartzell 3-Blade			+42.4 lbs
Replaces OE-Installed Hartzell 4-Blade			+8.4 lbs
Replaces McCauley 4-Blade			+2.4 lbs
Dual Aft Body Strakes (DABS)	\$28,750	35 hrs	+2.8 lbs
Crown Wing Locker System (CWLS)	\$84,375	115 hrs	+111.0 lbs

## EPIC Package Deal With Flight Manual Supplement

C90 SERIES/E90 EPIC WITH 4-BLADE ALUMINUM PROPS	SBTP	RARS	EPL	DABS	HFGD	CWLS	FMS BENEFITS
EPIC	●			●			See charts p 20-25
EPIC + CWLS	●			●		●	See charts p 20-25

# 90 SERIES EPIC PACKAGES

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



## 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)	FACTORY C90GTx	EPIC-EQUIPPED C90GT, GTi, GTX	IMPROVEMENTS
Takeoff Distance (SL, ISA)	3,240	1,980 ft	1,260 ft less runway
Takeoff Distance (5000 ft, 25° C)	4,600	3,370 ft	1,230 ft less runway
Accelerate-Stop (SL, ISA)	4,200	3,690 ft	510 ft less runway
Accelerate-Go (SL, ISA)	4,390	3,110 ft	1,280 ft less runway

### Cruise

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

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

### Other

Propellers	90" Hartzell/Beech 4-Blade	96" Raisbeck/Hartzell Swept 4-Blade	Exceptional performance, stunning ramp presence
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## Required EPIC Elements



4- Blade Swept Props (4-SBTP)



Dual Aft Body Strakes (DABS)

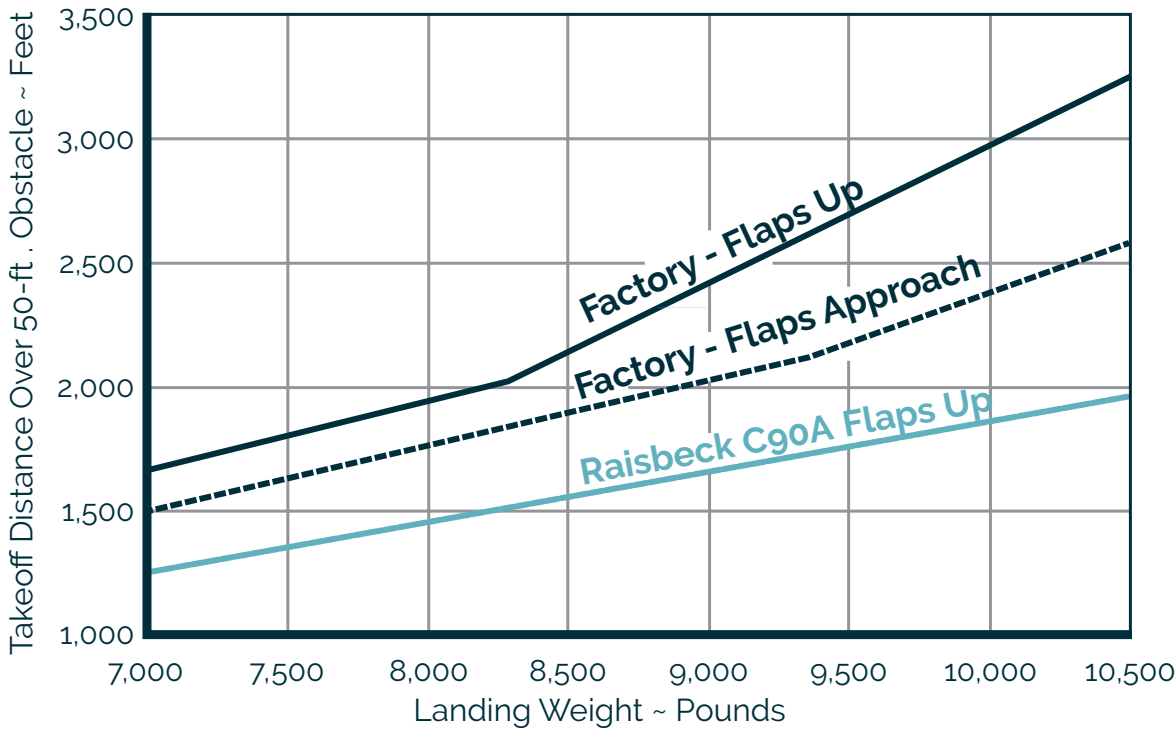


Crown Wing Lockers (CWLS) Optional



**TAKEOFF DISTANCE COMPARISON**

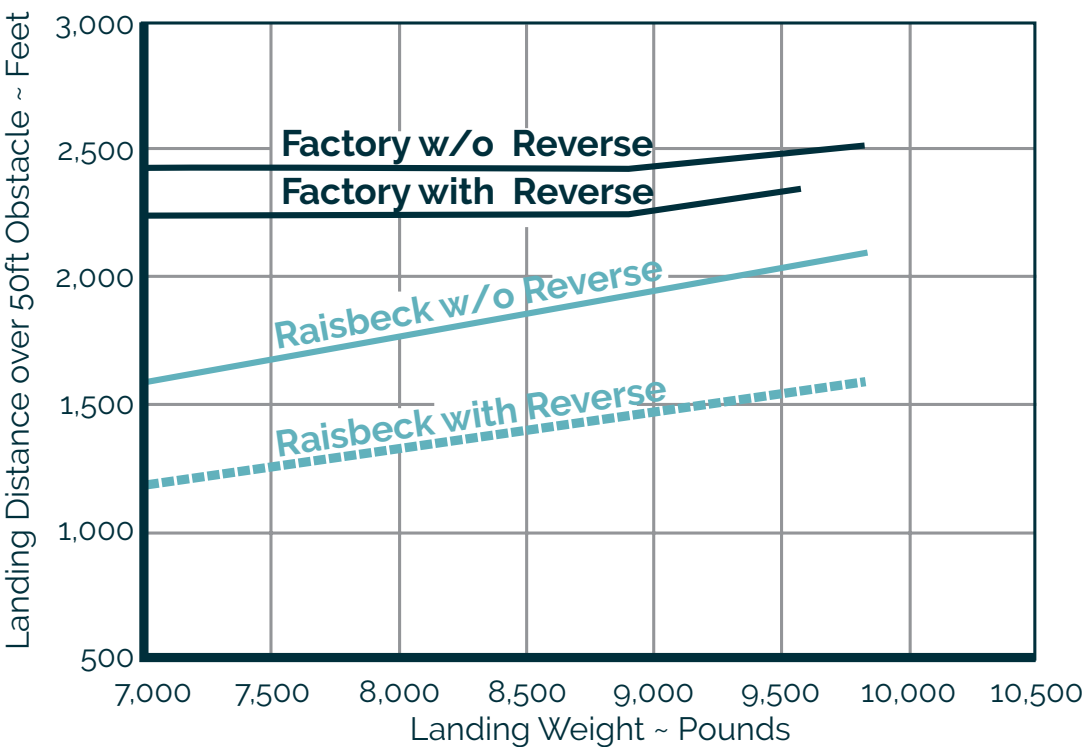
SL/ISA



**LANDING DISTANCE COMPARISON**

Raisbeck EPIC C90GTx vs Factory C90GTx

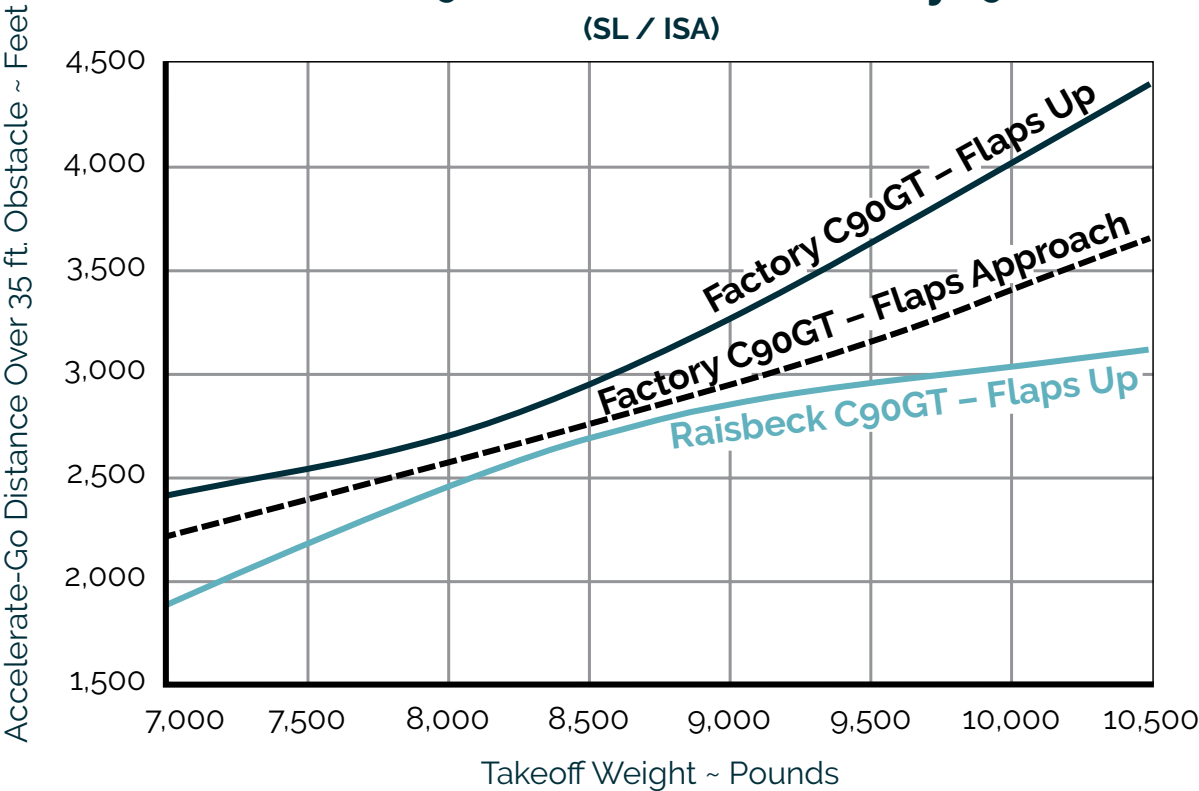
SL / ISA / Flaps Down



**TWIN-ENGINE ACCELERATE-GO DISTANCE COMPARISON**

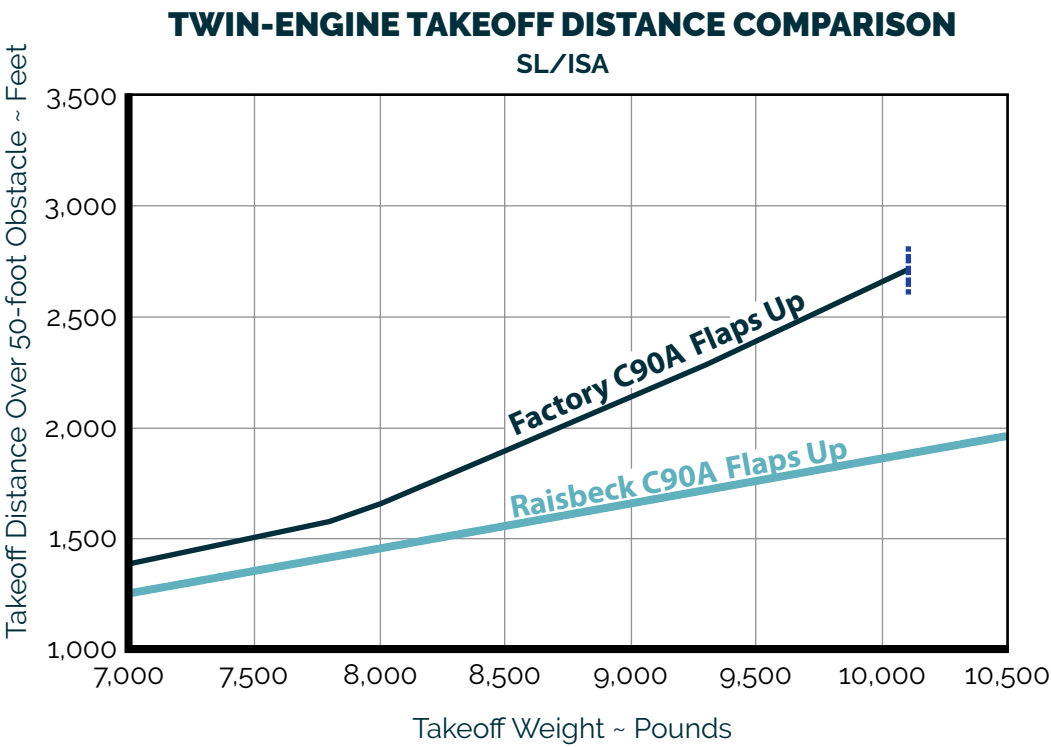
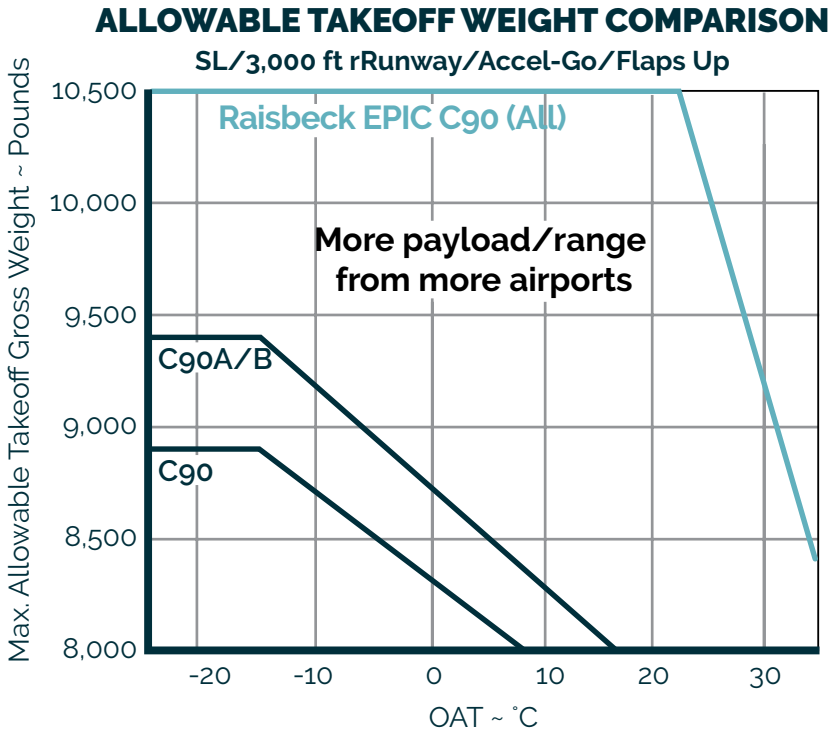
Raisbeck C90GT-Series EPIC vs Factory C90GT

(SL / ISA)



EPIC-Equipped C90, C90A, C90B

TAKEOFF	FACTORY C90, C90A, C90B	EPIC-EQUIPPED C90, C90A, C90B	IMPROVEMENTS
Takeoff Gross Weight	9,650-10,100 lbs	10,500 lbs	400 - 850 more lbs
Takeoff Distance Over 50' @ MTOW	2,710 ft	2,190 ft	22% shorter
Accelerate-Go Distance	3,650 ft	3,000 ft	18% shorter
Accelerate-Stop Distance	3,600 ft	3,785 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	495 fpm	525 fpm	6% better
Cruise			
Cruise RPM	1,900 RPM	1,750 RPM	150 RPM less
Maximum Cruise ITT	635° - 695° C	695° C	All upgraded to C90A/B
Landing			
Landing Distance Over 50 ft (no reverse)	2,290 ft	2,160 ft	6% less runway
Landing Gross Weight	9,600 lbs	9,700 lbs	100 lbs more
Other			
Propellers	90" Hartzell/Beechcraft 4-Blade	96" Raisbeck/Hartzell Swept 4-Blade	Exceptional performance and stunning ramp presence



EPIC-Equipped Ego 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)

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

Includes aircraft with Blackhawk engine upgrades

Ego SERIES EPIC  
Takeoff Range/Payload Comparison  
SL/ISA

