Founder and CEO's Message

You have been benefactors of a long line of Raisbeck Performance Systems for Learjets.

Our engineers have been developing systems for the Learjet family since 1971, and continue to do so today. This is perhaps the longest continuous stretch of engineering outside the factory, with consistently positive results and satisfied customers.

In 1974 we certified the Mark II Wing Systems for the Learjet 23, 24 and 25. Reduced takeoff and approach speeds, shorter takeoff and landing distances with better low-speed handling characteristics were the results. Cruise drag was also reduced, helping range and operating costs.

In 1979 Raisbeck’s engineers developed the Mark IV Wing System for the Learjet 35/36, which also reduced the approach speeds, increased the level of operating safety, and reduced cruise drag. Both systems were adopted by the Learjet factory in the form of the Century III AND Softflite Wings, standard on the Learjet production line since the late ‘70s.

The Raisbeck Aft Fuselage Locker for the Learjet 31/35/36 was developed in the mid-‘90s. More baggage space and less airplane drag were the results. Learjet made these lockers standard equipment on the Learjet 31 line beginning with S/N 31-122.

Raisbeck’s Performance Systems for the Learjet family represents the longest continuous stretch of performance engineering outside the factory.

In 2004, our Raisbeck ZR LITE Wing System for the 35/36 was certified, followed by the 31 in 2007, giving operators an 11% to 14% savings in block fuel. These systems came just in time to meet the skyrocketing fuel prices head-on.

Now, we at Raisbeck Engineering are completing development and certification of our Lear 60 Aft Fuselage Locker...over 28 cubic feet of additional baggage space, AND reduced drag at the same time. Certification and first production deliveries begin this year. We are working hand-in-hand with Learjet on this program.

40 years — That’s a long time for one company to dedicate itself to improving the performance and productivity of the Learjet family. And it will no doubt continue for a long time to come.

James D. Raisbeck, CEO
jdr@raisbeck.com

www.raisbeck.com
**ZR LITE Drag Reduction Performance Systems for the Learjet 30 Series**

Raisbeck’s ZR LITE Performance Systems provide significantly enhanced performance benefits for Learjet 31/35/36 models, while providing the highest return on investment available for the owner and operator.

Raisbeck’s ZR LITE Performance Systems were developed through extensive FAA certification flight test programs. The overall program was in development for more than four years, and almost 600 flight test hours were flown to optimize and prove each element. The Raisbeck Engineering ZR LITE System is FAA-approved and has been in trouble-free service for more than four years.

More than 100 Learjet 30 series have now been equipped with Raisbeck’s ZR LITE, and the list grows every day. Please contact us if you would like to speak to a satisfied ZR LITE operator and we will provide you with our extensive owner’s list. Contact us at sales@raisbeck.com.

**Aft Fuselage Locker**
*(Available Second Half 2011: Learjet 60 Aft Fuselage Locker)*

The Raisbeck Aft Fuselage Locker, available for Learjet 31/35/36 (and currently in development for the Learjet 60!), returns your cabin to your passengers without leaving anything behind. The Aft Fuselage Locker provides expanded storage, and in combination with the ZR LITE System, it creates an aerodynamic synergy that further enhances drag reduction on the Learjet aircraft. The Aft Fuselage Locker moves the aircraft Center of Gravity (CG) aft, reducing trim drag. The majority of Learjet 31 owners and many 35/36 owners have installed the locker. The Raisbeck Aft Fuselage Locker for Learjet 31 models became factory standard equipment during production.

With thousands of systems installed, accumulating millions of flight hours in service, Raisbeck Engineering has never been issued an Airworthiness Directive or FAA-Mandatory Service Bulletin.
31 - ZR LITE Performance System
for your 31 Series Learjet
Raisbeck’s ZR LITE is the only way for your Learjet 31, 31A or 31A/ER to fly higher, faster and farther, and consistently save 5-14% or more in fuel!

The main element of the ZR LITE Performance System for Model 31/31A Learjets is a re-contoured trailing edge flap system with an extended chord that dramatically reduces the wave drag that exists in the surrounding area of the aircraft.

The flap itself is uniquely tailored from fuselage-side to the outboard extremity, so as to minimize local Mach numbers at the venturi formed by the wing/fuselage/pylon/engine nacelle juncture. This conditions the over-wing air and delays the onset of performance-robbing, high-Mach drag rise at the juncture.

The ZR LITE Performance System was designed by Raisbeck’s engineers to enhance the takeoff, climb, cruise and range performance of your Learjet 31/31A.

The advanced ZR LITE components combine with the existing forward flap spar, and utilizes factory-installed flap tracks, supports, actuators and switches. The design does not require any additional maintenance requirements over OEM’s scheduled inspections. Installation requires minimal downtime.
for your 31 Series Learjet

**ZR LITE BENEFITS FOR MODEL 31 LEARJETS**

- As much as 14% or more in fuel savings:
  - 7.2% improvement due to *ZR LITE* drag reduction technology
  - 4.3% more savings for every 2000 ft of additional altitude gained
- 2000-4000 ft increase in initial cruise altitude (reach high altitude without losing Mach)
- .02+ increase in cruise Mach at equal power settings
- 7% or more increase in range
- 1% decrease in $N_1$ and 15° ITT reduction at equal Mach
- Reduction in time-to-climb
- Quieter cabin – less air separation noise
- Turn some one-stops into nonstops
- Minimal weight increase at 12 lbs

**ZR LITE RETURN ON INVESTMENT**

- 30-50% annual return on investment
- Higher resale value
- Broad industry appeal

---

**LARGE INCREASE IN RANGE FROM SHORTER RUNWAYS**

![Graph showing range increase from shorter runways](image)

- ZR LITE equipped 31A/ER with Extended Range Fuel Tanks
- Factory 31A/ER with Extended Range Fuel Tanks
- Factory 31A with Standard Fuel Tanks

*Note: Max range based on high speed cruise power setting at ISA with 25kt headwind*
**SAVE FUEL AND GO FASTER**

- Fuel Savings ~ %
  - 7% reduced fuel burn

**INCREASED OPERATIONAL FLEXIBILITY**

- Longer T/O/VMC letdowns at reduced power
- 2,000–4,000 ft higher with the same time-to-climb and cruise Mach
for your 31 Series Learjet

30-50% RETURN ON INVESTMENT – EVERY YEAR!

Assumes fuel @ $5.00/gallon; .78 Mach

$54,711/yr with increased altitude

$34,254/yr at same altitude

At 500 hours per year and $5 per gallon, fuel savings are at least $40,000 annually.

ADDITIONAL FUEL SAVINGS FROM HIGHER REACHABLE CRUISE ALTITUDES

Each 1,000 ft increase (at equal .78 Mach) reduces fuel flow by 2%.
35/36 · ZR LITE Performance
System for your 35/36 Learjet
Raisbeck’s ZR LITE is the only way for your Learjet 35/36 to fly higher, faster and farther from more airports. You will consistently save at least 5% on fuel at normal cruise and up to 14% or more if you take advantage of your Learjet’s new climb and cruise capability!
System for your 35/36 Learjet

Raisbeck’s ZR LITE Performance System was designed by Raisbeck Engineering to enhance the takeoff, climb, cruise and descent performance of Learjet model 35 and 36 aircraft. Our ZR LITE Technology utilizes state-of-the-art components which have been specifically engineered and designed to reduce wave, pressure, interference and induced drag that are aerodynamically imposed upon the aircraft.

ZR LITE is fully compatible and certified with all Avcon Industry systems. Also certified with all RVSM systems.

**ZR LITE CRUISE BENEFITS**

- 25% less time-to-climb
- 3000-4000 feet higher initial cruise altitude
- .02+ increase in cruise Mach at equal power settings
- 1% decrease in $N_1$ and 15° ITT reduction at equal Mach
- Consistently save a minimum of 5% in fuel at equal altitudes and Mach and up to 14% or more by taking advantage of new altitude capabilities
- 5-15% increase in range

**ZR LITE TAKEOFF BENEFITS**

- New flaps 14° for takeoff
- Slower V-speeds with flaps 14°
- Second segment climb performance of flaps 8°
- Opens up many smaller airports
- Carry more payload/fuel from “limiting” airports
- Extra fuel load adds even more to extended range

**ZR LITE DESCENT BENEFITS**

- The allowable descent speed has been increased by 25% with a new 250 knot flaps 8° placard
- Better initial descent and approach control
ZR LITE FLAPS 14° TAKEOFF BENEFIT – EXAMPLE: Aspen, Colo. (ASE), 70°F

TAKEOFF PERFORMANCE IS IMPROVED WITH NEW FLAPS 14°
System for your 35/36 Learjet

30-50% RETURN ON INVESTMENT PER YEAR!

ZR LITE significantly improves specific range

Assumes fuel @ $5.00/gallon; .78 Mach

$54,711/yr with increased altitude

$34,254/yr at same altitude

You can easily save about $10,000 on fuel alone for every 100 hours you fly.

ZR LITE

Baseline

15,000 lbs, Zero Wind, ISA

www.raisbeck.com
31/35/36 • Aft Fuselage Locker
for your 30-Series Learjet
Return the cabin

The Raisbeck Aft Fuselage Locker returns your cabin space to your passengers by carrying a wide variety of business equipment such as tripods and transits, architectural drawings, and meeting materials. On top of all that, your garment bags lie flat so your clothes never arrive wrinkled.

The spacious locker is almost eight feet long by two feet wide, and its 300 pound capacity enables you to carry seven pairs of skis and poles, golf bags, or hunting and fishing equipment.

You never have to compromise main cabin space again or ship equipment in advance. Now you can carry it all with you — safely, securely and legally in the watertight compartment.
Aft Fuselage Locker for 30-Series Learjets

BENEFITS

- Holds up to 300 lbs of luggage
- Watertight compartment
- Locker deploys at waist height for easy access
- Load and unload luggage without having passengers deplane to load the additional bags
- Limits wear and tear on interior
- Greater CG Control – reduces trim drag (= fuel savings)
- Improved stability – less Dutch roll

The external locker is an especially valuable asset on multiple-stop trips, making it possible to load and unload luggage without having passengers deplane to load the additional bags.

Loading and unloading are extremely easy, since the locker deploys sideways at waist height. Even fully loaded at the maximum capacity of 300 lbs, the locker glides smoothly with minimal effort. The addition of the locker moves the Center of Gravity (CG) farther aft along the aircraft longitude axis. This aft movement of CG results in less nose-up trim, reducing drag.

Combined with ZR LITE, the drag-reducing Aft Fuselage Locker contributes to synergistic performance improvements and fuel savings.
60 • Aft Fuselage Locker
Developed in cooperation with Learjet – Wichita, KS
EXTRA BAGGAGE SPACE – OVER 28 CUBIC FEET!
Raisbeck’s 60 Aft Fuselage Locker provides more than 28 cubic feet of waterproof space outside the cabin, with the capacity to hold an additional 300 lbs of luggage and cargo!

SLEEK, AERODYNAMIC DESIGN!
“Our aircraft just doesn’t look right anymore without the Raisbeck locker installed.”
— John Marc Swedburg, Executive Flight Flight test co-pilot of 60-047, the flight test aircraft

MORE—PAYLOAD/RANGE FLEXIBILITY!
By removing the CG restriction, Raisbeck’s 60 Aft Locker will allow you to fully utilize the range of your Learjet 60. Take off with full fuel and arrive at your destination ahead of schedule by eliminating a stop along the way.

“Our Lear 60 will be able to accommodate four passengers without aft ballast. Also, our range and payload will no longer be compromised.”
— Don Harter, C.O.O. and Pilot, Executive Flight, 60-047

SMALL PERFORMANCE GAINS
Our locker is aerodynamically designed to have no adverse effect on the performance of your aircraft, whether during takeoff, landing or in flight.
60/60XR Learjet

FLIGHT TESTING COMPLETED OCTOBER 2009
Lear 60-047 takes off on its certification test flight (photo above) from Pangborn Memorial Airport (EAT) in Wenatchee, Wash.

CERTIFIED AND AVAILABLE SECOND HALF 2011

THE RAISBECK/BOMBARDIER LEARJET TEAM
We are pleased to be associated with Bombardier in the development and certification of the Raisbeck 60 Aft Fuselage Locker. The locker will be offered on the Learjet 60XR new production line as a customer option.

NEW — CONVENIENT LOADING FLEXIBILITY!
The Raisbeck 60 Aft Locker balances the CG so you no longer have to compromise your trips.

EASE OF LOADING BAGGAGE!
Positioned directly on the lower aft portion of the aircraft fuselage, enjoy easy access when loading and unloading baggage and cargo.

CARRY OVERSIZE ITEMS COMFORTABLY!
It’s not a matter of choosing what to take and not having space anymore. Raisbeck’s Aft Fuselage Locker will accommodate oversize golf bags, large luggage, and bulky medical equipment—all outside the cabin so your passengers’ comfort isn’t compromised.
Customer Testimonials

**ZR LITE PERFORMANCE SYSTEM**

“We installed it [ZR LITE] for the fuel savings, but are also benefiting from increased operational flexibility, as well as an almost unbelievable return on our investment! The system will pay for itself in just under two years in fuel savings alone. It has opened up a few more fields for us. We take trips we would not even consider in the basic aircraft.”

Sanjeev Sharma, 35A-358

“After one year on our company’s Lear 35 we know the added safety is well worth the investment. This performance is not a cost. This system pays for itself with fuel savings. And the real kicker on top of that is the added resale value to the aircraft. Speaking to other ZR LITE pilots reinforces the facts we have found. The Lear 35 is 10% to 14% more fuel efficient whether the trip is long or short. The owners now have more faith in performance package payback—it is better than what we saw advertised. Take note, I have been flying this Lear 35-402 for 14 years, I know the numbers and now with the ZR LITE the numbers are much better.”

Jerry Frey, 35A-402

“Skyservice flies all over the world. Raisbeck’s ZR LITE and Aft Fuselage Locker enable us to add more missions and utilize only one crew on transoceanic flights. Our fuel savings average at least 7 to 10 percent.”

Pat Renaud, Chief Pilot, Skyservice Air Ambulance, 35A-390

“Thanks for the successful project on our last [ZR LITE] installation. The crew reported that they are cruising at approximately 30 to 60 degrees ITT cooler on their way back home. That is great news! Lower ITT, less fuel burn, greater performance and cost savings. We look forward to installing the ZR LITE flaps onto the remaining fleet of 31s and experience the same results.”

Steve Vennerbeck, Pilot, Walmart Aviation, Lear 31

“The aircraft climb performance is significantly improved; we consistently beat the book numbers for time to climb. Fuel burns are significantly reduced at all altitudes. I am most impressed with the fuel savings, north of 12% reduction, at the higher cruise attitudes. It didn’t take me long to realize that I made a good decision to invest in the ZR LITE kit. ZR LITE makes a different airplane out of my 31A.”

Perry Di Loreto, Pilot, 31A-186
AFT FUSELAGE LOCKER

“Our medical teams really love the locker because we can carry patient luggage and medical supplies outside the cabin. That greatly increases patient comfort and safety, and we have more room to assist them.”

Pat Renaud, Chief Pilot, Skyservice Air Ambulance, 35A-390

“I am delighted with the beautiful baggage compartment. [With ZR LITE] this is, without question, the best airplane with your modification that money can buy for long range travel.”

C.R.G. Hellinger, 36A-055

“We had the locker installed when we bought the Learjet. It’s the smartest move the boss has made in ten years. It not only gives us a place to store excess baggage, it has helped tremendously controlling the CG. Most important, we’re able to return the interior of the aircraft to the owner.”

Bill Brooks, Rusty Wallace, Inc., 31A-038

“An added benefit of the Aft Fuselage Locker is the change in CG [on our Lear 31A-241]. When we are loaded up with passengers, we used to run the risk of a forward CG. But having the Aft Fuselage Locker, even empty, negates that concern.”

Zane Lambert, Aviation Dept. Manager, Sanderson Farms

“The Raisbeck locker has enhanced our charter program. It has given us ways to carry longer items such as oversize equipment, skis, golf bags legally with passengers to their destinations and not have to ship them. They’re absolutely fantastic.”

Gary Clason, Business Jet Solutions, 31-171

“Our Lear 60 will be able to accommodate four passengers without aft ballast. Also, our range and payload will no longer be comprised.”

Don Harter, C.O.O. and Pilot, Executive Flight, 60-047

“Our aircraft just doesn’t look right anymore without the Raisbeck locker installed.”

John Marc Swedburg, Flight test Co-Pilot

Executive Flight, 60-047"
Authorized Dealers

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jeffg@hagganaviation.com

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Stevens Aviation
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Scott Kaczor, (561) 744-9971
skaczor@stevensaviation.com

West Star Aviation
Grand Junction, Colorado
Emily Mason, (970) 261-1308
EmilyMason@WestStarAviation.com

Authorized Dealers

BRAZIL

South America
Additional Available Information

Website: www.raisbeck.com

- Flight manuals
- Maintenance Manuals
- Illustrated Parts Catalogs
- Flight Planning Materials

Brochures

We offer a variety of marketing materials that provide in-depth information about Raisbeck’s ZR LITE Performance Systems and Aft Fuselage Lockers, and their amazing benefits, features and return on investment.

System Summaries

ZR LITE System Summaries are elegant enough for display in an executive office or home, yet provide valuable information about the ZR LITE Performance System — why it was developed, how it works, the proven benefits it delivers, and where you can have it installed.

Raisbeck Products Owners List

This growing list quickly allows you to see all the Raisbeck-equipped Learjets in the fleet. Numerous operators are now enjoying the many benefits of Raisbeck products.

For information, e-mail
Information

Learjet Performance Systems DVD & CD

The DVD shows all of Raisbeck’s Performance Systems for Learjets in action, and explains the technology and its many benefits to your operation. The CD includes a Fuel Savings Calculator that lets you estimate fuel savings based on your typical missions and find out how quickly ZR LITE will pay for itself and start putting money in the bank year after year.

ZR LITE Cruise Tables

ZR LITE cruise tables give you a more accurate way to calculate fuel savings for flight planning. Table variables include specific range values, Mach, airspeed and fuel flow. The altitudes associated with the maximum specific range for a given gross weight and temperatures are also highlighted for quick reference.

RADIAL Newsletter

The Raisbeck Learjet Newsletter, RADIAL, is published monthly to expand our dealers’ knowledge of Raisbeck products, identify new business opportunities, and hear pilots talk about their experiences with ZR LITE and the Aft Fuselage Locker.

Team Raisbeck

Team Raisbeck maintains an unswerving focus on our customers and dealers and their needs. We’re here to help you with any questions you may have, from pre-purchase research to installation and maintenance.

sales@raisbeck.com
Team Raisbeck

Mike McConnell  (mike@raisbeck.com)
President
Mike brings over 20 years of leadership in high tech and aerospace to Raisbeck and is responsible for leading the company in growth initiatives. A pilot, aircraft owner and former aircraft dealer, Mike sees the world as opportunities through the lenses of both the OEM and end user experiences. Mike has held senior executive positions at aircraft OEMs and was part of the computer industry in the 1980s and ‘90s which prepared him for overseeing the overall direction of Raisbeck Engineering.

Bill Lally  (bill@raisbeck.com)
Director of Customer Support
Bill plays an integral part in our service team. He comes to Raisbeck with over three decades of experience in aviation. Bill utilizes his technical background and interpersonal skills in his position and does an outstanding job. He oversees Customer Support, Warranty, Technical Issue Trends, Special Projects and Field Installation Training. His strong dedication to our customers and dealers is a unique asset.

Aaron Jo-Nes  (aaron@raisbeck.com)
Technical Support Manager
Aaron spent many years as an aircraft technician and is extremely up to date on technical issues. He regularly is out in the field for installations and works hard solving any technical issue. He has a great personality that shines through all of his interactions. We are grateful to have him as part of our customer service team.

In addition, CEO James Raisbeck is available by e-mail
Scott Keefe (scott@raisbeck.com)
Team Raisbeck Sales
Scott is an expert on our King Air Performance Systems, and is responsible for many national and international sales. He works closely with our Raisbeck Authorized Dealer network, and can be counted on for outstanding service at all times. His dedication to our customers and knowledge of the industry make him an invaluable part of the team.

David Harsay (dharsay@raisbeck.com)
Team Raisbeck Sales – Learjet
Dave is an Embry-Riddle Aeronautical University graduate and a licensed A&P with over 20 years in the industry supporting King Air and Learjet operators in various roles including maintenance, modifications, avionics, and new aircraft deliveries. With his technical knowledge, he provides outstanding customer service and optimal solutions for owners and operators. His sales and marketing background is also put to good use developing our dealers.

Tobin Shackelford (tobin@raisbeck.com)
Team Raisbeck Sales – Special Missions
A high time pilot in King Air aircraft, and experienced with the Learjet 30 series, Tobin stands ready to assist you with all of our Raisbeck Performance Systems. He has his eye on all special mission projects, and works closely with all of Raisbeck’s dealers and customers.

(jdr@raisbeck.com) or telephone (206-723-2000) any time.
# 2011 Prices

## Learjet 31, 31A, 31A/ER

<table>
<thead>
<tr>
<th>Feature</th>
<th>Price</th>
<th>Combo Savings</th>
<th>Install</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aft Fuselage Locker</td>
<td>$114,294</td>
<td>—</td>
<td>150 hrs</td>
</tr>
<tr>
<td>ZR LITE Performance System</td>
<td>$95,815</td>
<td>—</td>
<td>115 hrs</td>
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<tr>
<td>LAFL/ZR LITE Combination</td>
<td>$184,896</td>
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<td>265 hrs</td>
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## Learjet 35, 35A, 36, 36A

<table>
<thead>
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<th>Feature</th>
<th>Price</th>
<th>Combo Savings</th>
<th>Install</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aft Fuselage Locker</td>
<td>$114,294</td>
<td>—</td>
<td>150 hrs</td>
</tr>
<tr>
<td>ZR LITE Performance System</td>
<td>$122,710</td>
<td>—</td>
<td>180 hrs</td>
</tr>
<tr>
<td>LAFL/ZR LITE Combination</td>
<td>$208,564</td>
<td>$28,440</td>
<td>330 hrs</td>
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## Learjet 60, 60XR

<table>
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<th>Feature</th>
<th>Price (Estimated)</th>
<th>Install (Estimated)</th>
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</thead>
<tbody>
<tr>
<td>Aft Fuselage Locker*</td>
<td>$248,500</td>
<td>220 hrs</td>
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</tbody>
</table>

*Available second half of 2011.

## PRICING NOTES

1) Cost of shipping, installation and paint are not included in basic pricing.

2) Installation times are estimates based on dealer information.
Raisbeck Engineering, Inc.
4411 South Ryan Way
Seattle, WA 98178 U.S.A.

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Inquiries
sales@raisbeck.com

Website
www.raisbeck.com
“Simply more of what you bought your Learjet for.”