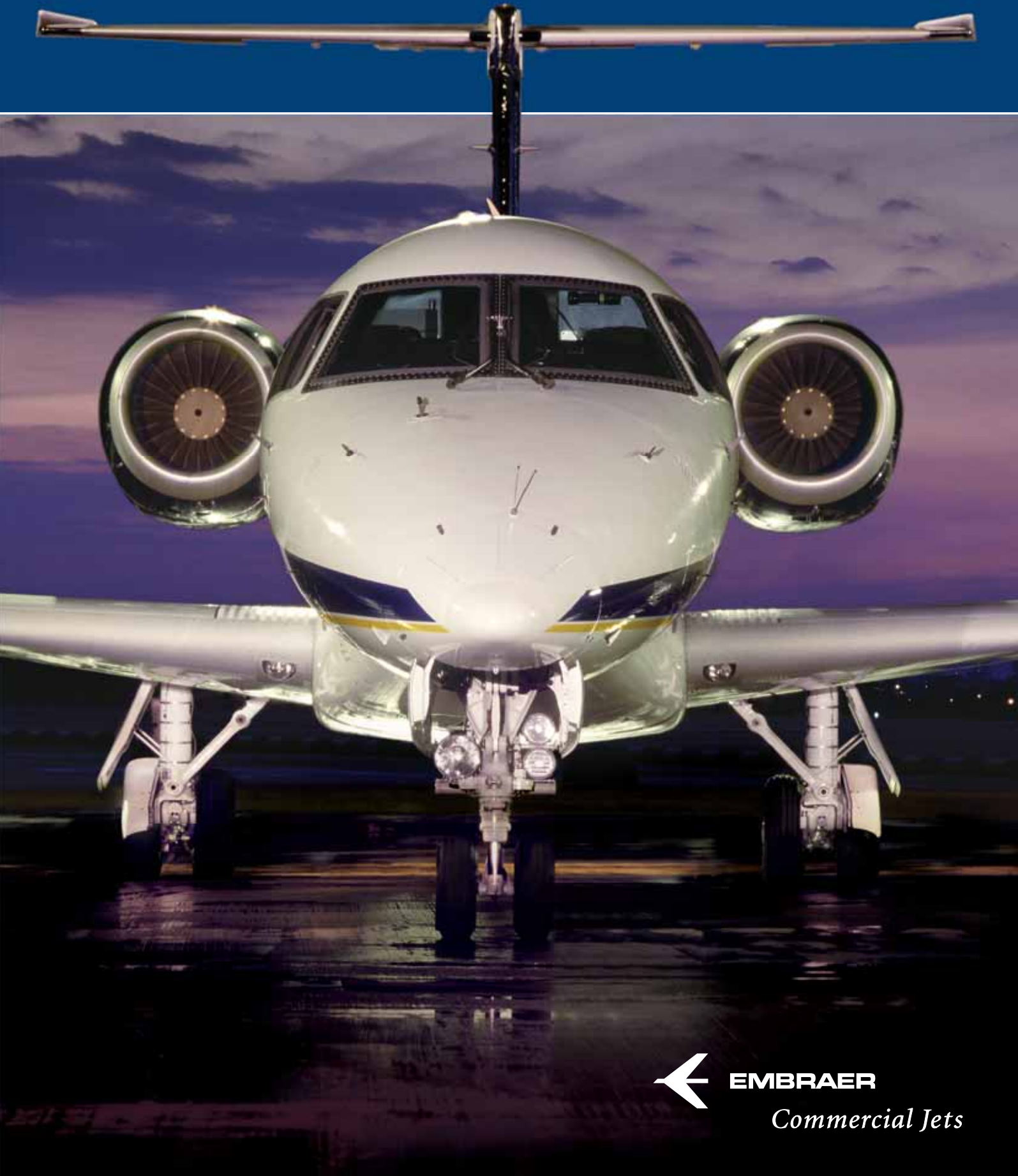


ERJ 145 Family

BUILDING REGIONAL AIRLINE SUCCESS



EMBRAER

Commercial Jets



Innovation

beyond the **h o r i z o n**

Innovation is the ability to see beyond the curve of the horizon - to observe the dynamics of today and conceive the opportunities of tomorrow. Acted upon, these opportunities create leaders in every field. In regional aviation, that leader is Embraer because at the heart of every action we take is a continued spirit of innovation. For over 35 years, we've sought to ideally match aircraft technology with market needs, to create opportunities for customers who demand more and who, like us, set their goals beyond the horizon.



Designed for the Market

The ERJ 145 family is a symbol of this innovation - the continued evolution of regional success. The ERJ 145 family was designed from the beginning with the regional airline market in mind. It was not adapted from a design meant for another market but is rather an optimized family of jets - regional from top to bottom. The benefits of this optimized design are clear. In addition to broad family commonality, the ERJ 145 family delivers high structural design efficiency, simplified maintenance, low direct operating costs, outstanding dispatch reliability and schedule completion rates, as well as a long, dependable service life in the demanding regional airline environment.

So, when it was launched into service in 1996, the ERJ 145 was not only a new jet, it was also representative of a completely new market offering - jet engineering focused purely on regional customer needs and desires.

More than 900 aircraft based on the ERJ 145 platform have been delivered, logging over 7 million cumulative flight hours. Today the ERJ 145 Regional Jet family carries more than 150,000 passengers every day in emerging and established markets around the world.

Family Versatility

ERJ 145 family members are well suited for high frequency use and operate up to 3,000 hours per year. The unique family design offers airlines 95% parts and systems commonality and the same crew type-rating.

This high commonality also reduces spare parts requirements, permits the use of the same ground support equipment, and allows for standardized training and maintenance procedures, which translate into reduced costs, better parts logistics efficiency, and higher profitability.



Proven to Succeed in Every Environment

Carrying more passengers at greater speeds over longer distances than turboprops and allowing for the agile right-sizing of routes on which aircraft with excess capacity are deployed, regional jets continue to create business opportunities for eager airlines. New markets can be reached. Frequencies can be increased. Seat count can be matched to demand. Passengers can be assured of a smooth and comfortable jet ride.

When markets are strong, Embraer ERJs expand catchment areas by adding more spokes to carrier hubs, in addition to increasing route frequencies, supplementing mainline jet capacity, introducing secondary-to-secondary market services and opening new, long and thin routes with small, low-risk capacity.

In weakening market scenarios, Embraer ERJs have been instrumental in helping mainline carriers defend their competitive market position by maintaining high route frequencies, preserving network integrity and overall market presence, replacing unprofitable mainline jet services and rightsizing aircraft capacity with demand.

ERJ 135

Built for lower-demand markets, the ERJ 135 is an ideal step up from small capacity turboprops. Superior field performance, higher speed, and greater range all contribute to reaching new markets and creating more seat miles.



37 Seats
1,750 nm

ERJ 140

The ERJ 140 delivers the benefits of the ERJ 135 with an increase in seat capacity allowing operators the ability to grow routes with manageable seat capacity increases and full family commonality benefits.



44 Seats
1,650 nm

ERJ 145

The first member of family, the 50-seat ERJ 145 delivers the versatility needed for building a regional network - it can be utilized for turboprop replacement, new market development, frequency building, and right-sizing.



50 Seats
1,550 nm

ERJ 145 XR

The XR is Embraer's response to market demand for longer flights. The jet delivers a 2,000 nm range that opens new opportunities to expand an existing network and bypass hub operations with a manageable seat count and ERJ family commonality-based savings.



50 Seats
2,000 nm

Large Jet Performance

on a Regional Jet Platform

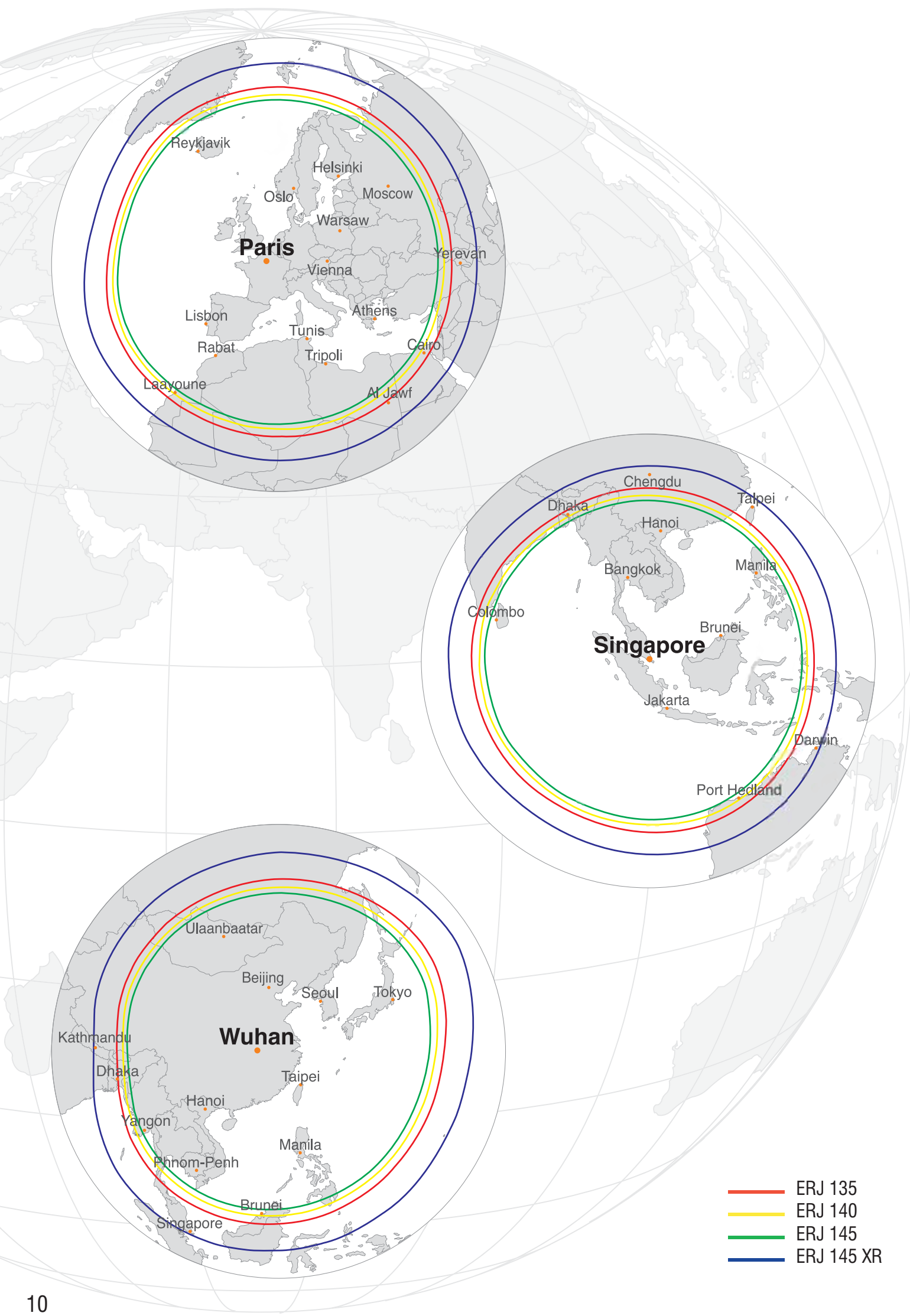
The ERJ family delivers power and speed that you might only expect from a narrowbody jet. In fact, it is this innovative combination of performance and size that allows ERJs to easily blend into large hub operations and still have access to out-of-the-way fields; to economically make small hops and still be feasible replacements for mainline jets on longer routes.

ERJ 145 family jets fly well above inclement weather with an operational ceiling of 37,000 ft at a cruise speed of Mach .78. And, with maximum ranges up to 2,000 nm, the ERJ 145 family offers the seat count and performance to match a variety of mission profiles.

At the Head of the Mission

The ERJ 145 family cockpit is designed with the quiet and dark concept in mind, providing pilots with maximum ergonomic benefit and safety while simultaneously reducing workload. All cockpits are equipped with a Honeywell Primus 1000 fully digital all-glass avionics suite. The package features five 8 x 7 inch screens driven by dual integrated computers. The system includes two PFDs, two MFDs, and one EICAS, plus Primus II radios, TCAS, FMS and EGPWS.





The Power to Take You Further

Two high-bypass ratio turbofan engines, from the Rolls-Royce AE3007 family, deliver both fuel savings and a quiet ride. Dual redundant FADECs control the engines to optimize operation and reduce wear and fuel consumption while built-in test equipment allows for easy fault identification and repair. Variable power settings provide the performance needed for a wide variety of daily missions - allowing airlines to schedule derated takeoff operations which help to prolong engine life. Additionally, ERJ 145 family engines are designed for interchangeable use on either side of the aircraft. This "unhanded" design simplifies and expedites engine changes and maintenance.



Trademark
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C o m f o r t

ERJ 145 Family

Well-designed space, whether you are working or relaxing, delivers comfort, ease, and accessibility. And it is not by chance that Embraer jets are known for their innovative and efficient use of cockpit and cabin space - it is by design.

The Cabin Passengers P r e f e r



Designed for both crew and passengers, ERJ cabins are pressurized to 7.8 psi and maintain an 8,000 ft cabin altitude up to a 37,000 ft ceiling. The three-abreast 31 inch pitch seating arrangement increases passenger comfort and provides everyone with either a window or aisle seat. In addition to individual passenger comfort and privacy, the three-abreast layout reduces the time needed for boarding and deplaning.



Large windows, positioned at eye level, aligned at one per seat row, offer passengers a wide angle of vision and help to create a bright and open cabin environment.

Overhead stowage compartments feature space-saving retracting door panels while large wardrobes allow for additional stowage. And all ERJ members feature a 71 ft³ (2 m³) aft transverse lavatory - the largest in its class.

Five galley arrangement options offer airlines a high degree of flexibility in cabin and galley configuration - single, dual, and side-facing units support high standards of in-flight catering.



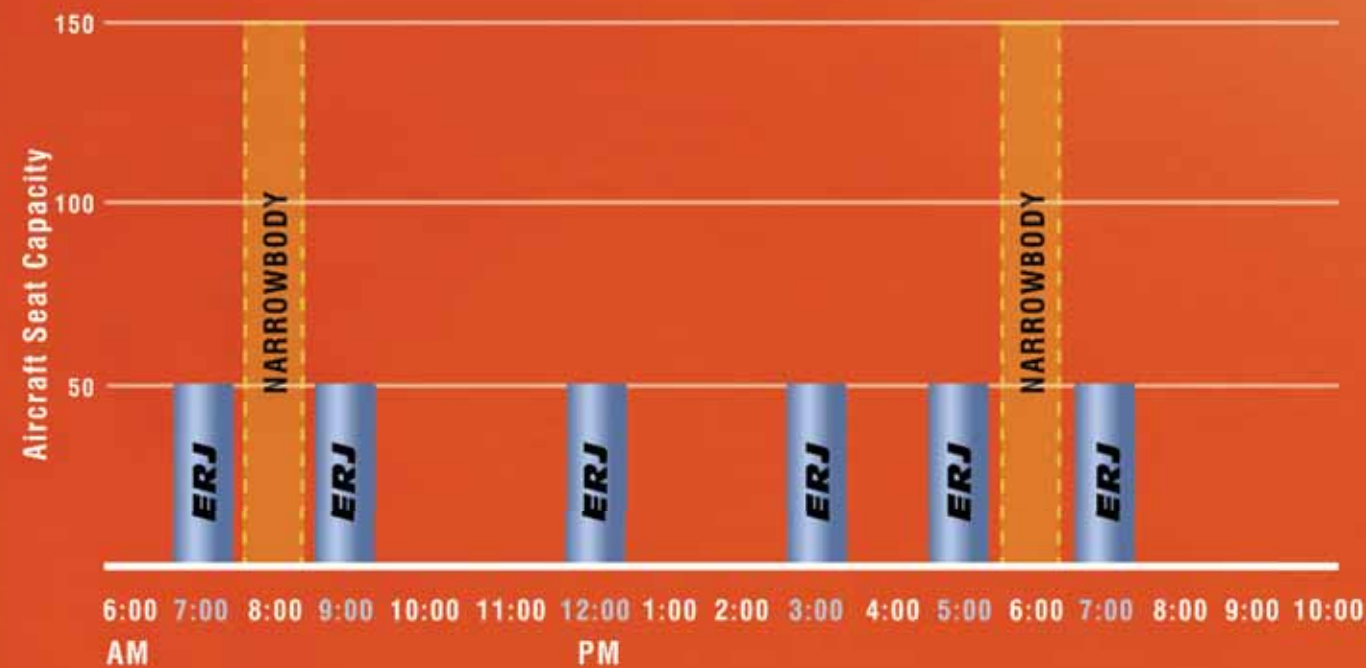
A Formula for Success

The flexible ERJ 145 family allows airlines to optimize their fleets by better matching aircraft capacity to fluctuating market demand. This simple but powerful truth has been applied around the world and is the basis of the formula for the success of regional jets.

1- Larger Jet Replacement

Airlines can pay a high price for sustaining frequency and maintaining growth by applying too much capacity to their routes. Efficiency can be found by replacing half-full narrowbody jets with smaller ERJs, therefore right-sizing the route and freeing the big jets for better use in larger markets.

Six Frequencies per Day Instead of Two



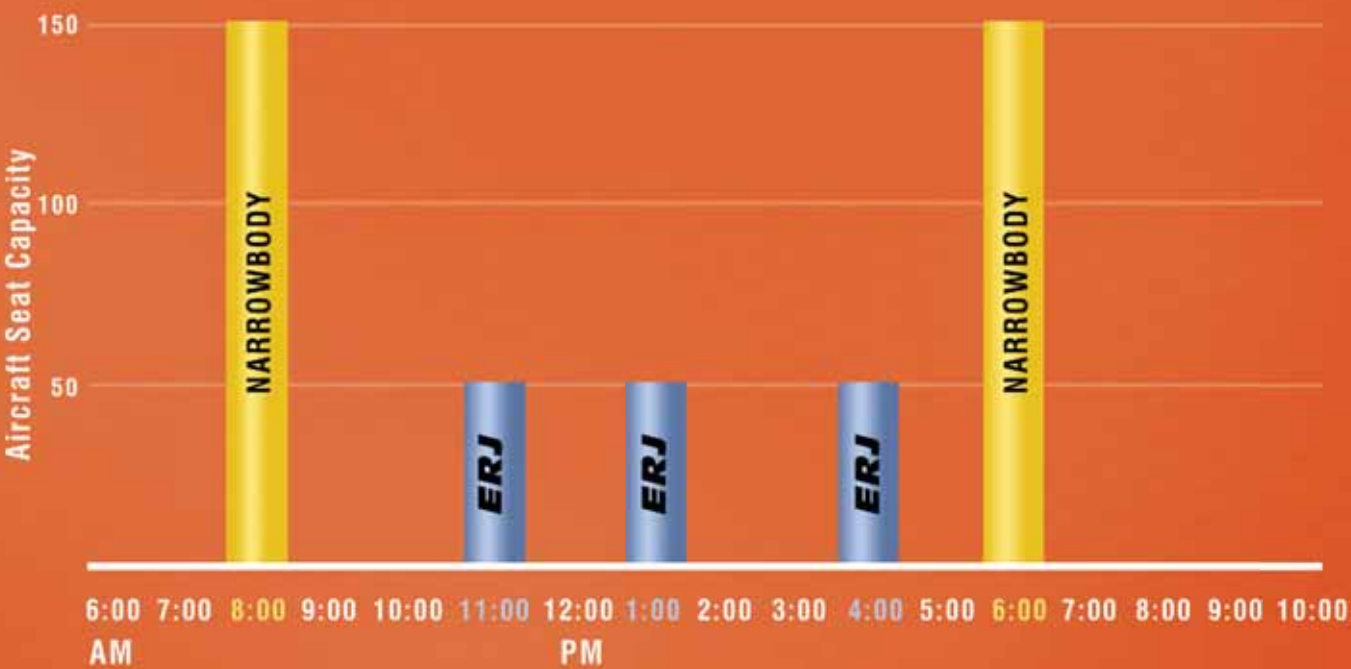
2- Turboprop Replacement

An increase in the speed and range of an aircraft can increase its productivity. Flying faster and farther on an ERJ allows you to reach destinations sooner and more frequently therefore generating more seat miles by adding flights to the schedule. And, by flying above inclement weather, customers are assured a smooth and comfortable jet ride.

3- Supplementing Large Jet Operations

Maintain both competitive market frequency and appropriate seat capacity by deploying narrowbody jets during peak hours and regional jets during off-peak hours. This strategic combination of ERJs and larger jets enhances competitive positioning, gives passengers a greater choice of flights, and ensures the right capacity at the right time of day.

Incremental Frequencies for Off-Peak Demand



4- New Route Development

Expansion can be achieved with lower cost and lower risk by strategically employing ERJs on thin routes that service low-demand point-to-point cities. ERJs also allow airlines to expand their market catchment areas from a hub, bringing in new business from cities that were previously served exclusively by competitors or not served at all.

Good for the Bottom Line

Keeping operating costs to a minimum is critical to maintaining a competitive advantage in today's marketplace. The ERJ 145 family was designed with this in mind and Embraer engineers are continually working to maximize operating efficiency to keep unit costs low. The C-Check interval was increased by 25% from 4,000 to 5,000 flight hours and structural and corrosion inspection thresholds were introduced. These two enhancements represent a 13% reduction in the maintenance workload.

A family of aircraft delivers additional cost savings through crew, engine and spare parts commonality. In fact, the four aircraft types share nearly 95%

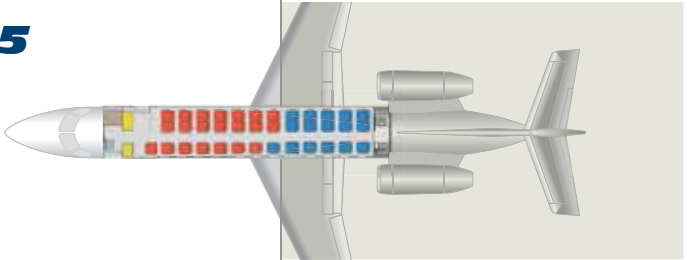
common systems and parts. Same crew qualification across the four models means differences training is one of the simplest in the industry. With the benefits of a common family, airline schedulers and crew planners will find last-minute flight changes are easily accommodated.

Since ERJs are designed for easy ground servicing and fast turnarounds, they produce superior revenue-generating potential through high daily utilization. Combining high productivity with proven schedule reliability ensures the ERJ is in the air, building your business and keeping your bottom line healthy.



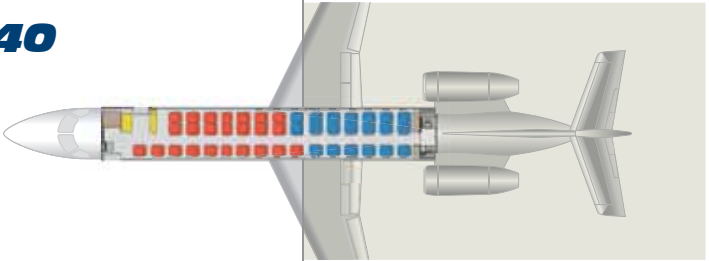
ERJ 135

58%



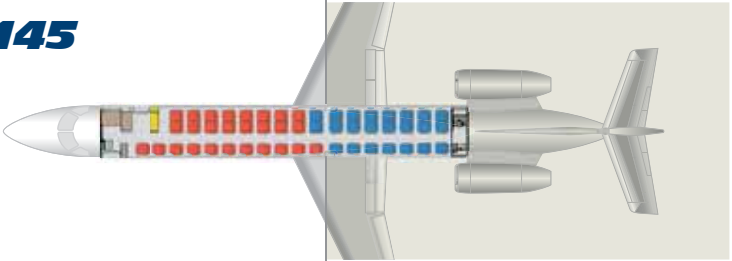
ERJ 140

56%



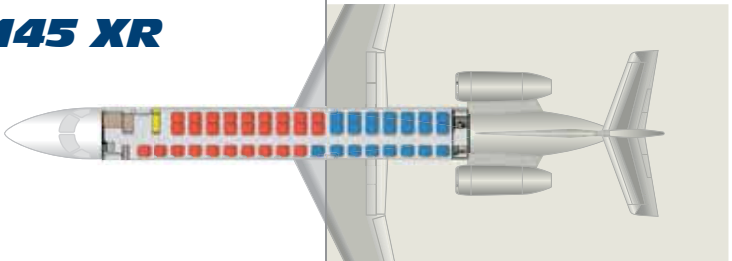
ERJ 145

54%



ERJ 145 XR

55%



Fewer Seats

To Break-Even

The ERJ 145 family's low operating costs generate attractive break-even values, making the aircraft adaptable to markets with a range of business profiles. Break-even is achieved with as few as 54% of seats occupied. Revenue from the remaining seats goes straight to the bottom line.

USA Operating Environment

Supporting Customers

Around the World

Embraer Customer Services provides around-the-clock support seven days a week to operators on five continents. Spare parts distribution centers in Brazil, the USA, France, the UK and China, as well as authorized maintenance shops and component and accessories repair facilities in Europe, North America, and Brazil keep 3,000 Embraer in-service aircraft reliable every day around the world.

Advanced technical teams at Embraer work proactively to solve problems before they appear. Parts representatives anticipate material support needs from customers, preventing unnecessary ground time. Our reliability team works to improve aircraft dispatch reliability by continuously tracking field problems and proposing solutions and improvements to maintenance plans. And AEROChain™, Embraer's exclusive Internet-based aviation marketplace support program, facilitates the communication and information interchange between customers, vendors and partners.

With material, field, technical, and operations support, training in any of our 31 aircraft simulators around the world, maintenance overhaul, and engineering and value-added services that employ the latest information technology, our commitment to our customers follows them wherever they go.



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