

embraer.com

LEGACY[®] 500

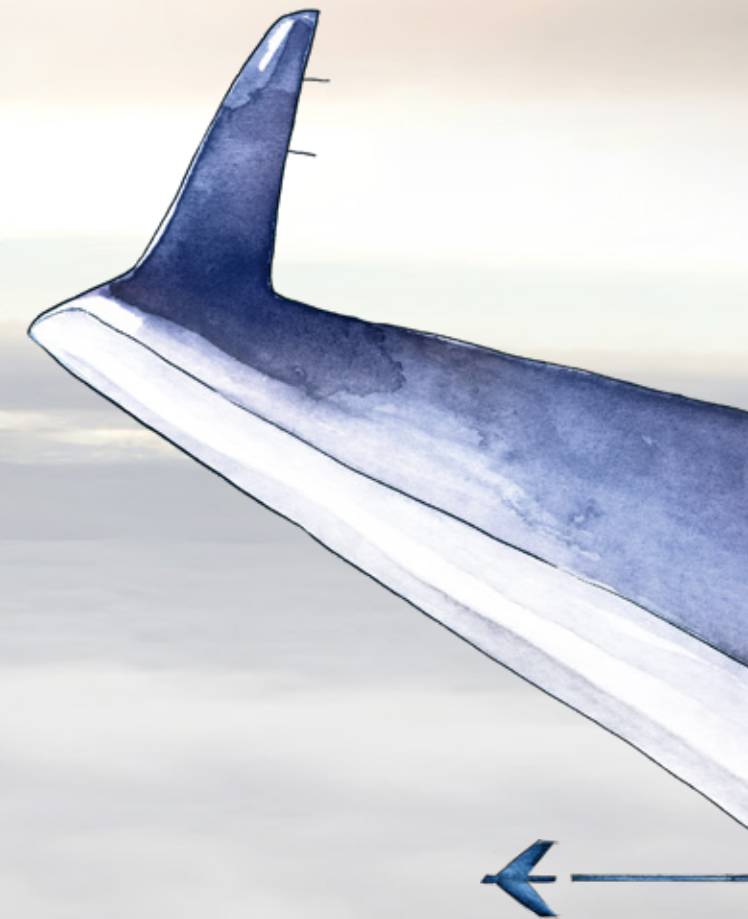
B Y E M B R A E R



CHALLENGE.
CREATE.
OUTPERFORM.



ENJOYING EVERY MOMENT
OF YOUR JOURNEY.



FLYING IS A MIRACLE
THAT CAN BE CONSTANTLY IMPROVED UPON.



CHALLENGING THE STATUS QUO.

Our approach to challenging the status quo is expressed in our slogan: Rethink Convention. But it's more than a slogan. It's our philosophy.

When we announced in 2008 that we were embarking on the development of a new-generation midsize business jet, we knew we had a tremendous opportunity. Our goal was to bring to this category innovative solutions for performance and comfort, offering advanced technologies from the flight deck to the cabin that previously were found only on the most expensive business jets.

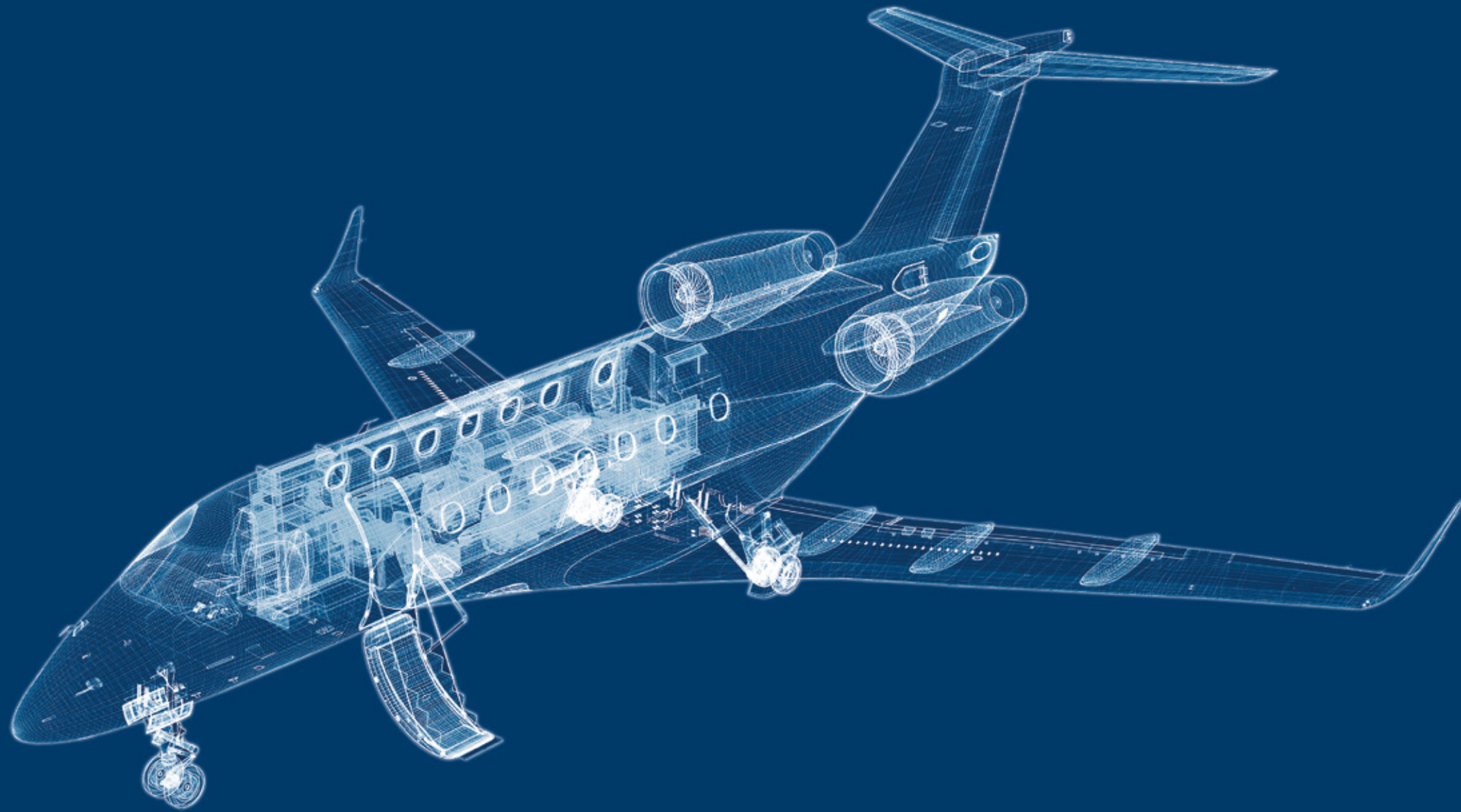
We began our mission with certain advantages, including a 39-year history as the manufacturer of exceptional commercial and military aircraft as well as some of the most innovative jets in business aviation.

We also had another distinct advantage: The belief that it's amazing what's possible when you assume everything is possible. A similar mindset was prevalent during the Space Age, an era defined by rapid advances in technology and the creation of America's space program. It's fitting that today Embraer's growing executive jet production facilities, customer center and first engineering and technology center outside Brazil are located on Florida's Space Coast. A company whose philosophy embodies a dynamic spirit of innovation is right at home in the place where rockets and space shuttles have soared into the sky for decades.

Our revolutionary Legacy 500 was born from a culture of politely challenging almost everything. It's truly a product of rethinking convention. And our customers are reaping the benefits. ←



Global Customer Center in Melbourne, FL, USA



AMAZING THINGS HAPPEN WHEN YOU'RE BOUND ONLY BY PHYSICS.

As members of The Clean Sheet Club, we get to start from scratch. With fresh eyes. No assumptions. No preconceptions. No compromises. And no existing airframe dictating boundaries.

There are no rules except the laws of physics. And we even push those a bit. As a result, we can pull out all of our wish lists, especially the ones our customers have.

This is an approach that has served us and business aviation well. In the last 10 years, Embraer Executive Jets has certified not just one, but four clean-sheet designs.

In the process, we significantly elevated the standards for the light jet category. And, entirely redefined the kind of performance midsize and mid-light jets could deliver.

Our newest jets, the Legacy 450 and Legacy 500, represent seven years of development.

In these revolutionary aircraft, we've reimaged every system. Tapped into the best new technologies. And newly envisioned every component.

Good demonstrations, we think, of Rethinking Convention. 



INTELLIGENT LUXURY.

Embraer Design DNA is the strategy guiding Embraer Executive Jets' innovation path. Creating distinguishable elements with a sustainable evolution of the product, reutilizing proven solutions, increasing maturity and quality over time and optimizing costs and resources among platforms with discernible product features and timeless design. Future technologies and interfaces should be adapted and translated into the Embraer Design DNA vision to support and add value to Embraer Executive Jets' portfolio and its position. ✈️





LONGER RANGE.
GREATER OPTIONS.



Honolulu / USA



Angra dos Reis / Brazil



Dubai / United Arab Emirates



London / UK



Aspen / USA



Hong Kong / China






LUXURY
BEYOND COMPARE.



FRESH HOSPITALITY.

The Legacy 500's wet galley serves as an elegant, welcoming entryway to the aircraft. The largest galley in the segment offers a refined experience for long flights. 





PERFECTION IS OUR BENCHMARK.

Attention to detail and superior craftsmanship are evident throughout the elegantly appointed 6-foot-tall flat-floor cabin, from the furniture-like design of the fully reclining seats to the optimal placement of the seats next to large windows. Whether working or dining, the cabin's stowable tables offer plenty of space, opening flush with the side ledge. And with the most generous baggage volume in its segment, you'll be able to bring along everything you need every time you fly aboard this revolutionary aircraft. ✈

Some features
are optional



A SMOOTH, QUIET JOURNEY.

The maximum cabin altitude of 5,800 feet and ultra-quiet environment are ideal for working, conversation or relaxing. ✈️





Satellite phone

A practical amount of in-flight accessible baggage for more convenience
Largest baggage compartment in class for more travel flexibility

Seats recline into beds

COMFORT AND CONVENIENCE
AT ITS FINEST.



COMFORT-ENHANCING TECHNOLOGY.

Technology is not just about the latest trends, but also about seamless integration. Its purpose is to serve the user. And an innovative new cabin management feature – the upper tech panel – does just that.

Unique to Embraer, the touchscreen overhead panel brings flight status information, ambient lighting and access to cabin controls directly to passengers' fingertips. ✈️





A PERFECT UNION OF TECHNOLOGY AND ERGONOMICS.

The Legacy 500 promises its pilots the most sophisticated marriage of technology and ergonomics in any size business jet. The dark and quiet cockpit is designed to anticipate every need, reduce pilot fatigue and minimize workload. The Legacy 500 has a Synthetic Vision System to see what the eyes can't. Enhanced Vision and Head-Up Display (HUD) offer even more situational awareness. The orchestration of Embraer's digital controls, based on fly-by-wire technology, and Rockwell Collins Pro Line Fusion avionics provide an instinctive interface between pilot and aircraft. ⚡




THE LATEST IN
TECHNOLOGY.



ACROSS THE COUNTRY.
AROUND THE WORLD.

Its nonstop range at long-range cruise speed is 3,125 nm (3,600 statute). An impressive reach. And fast, at seven hours.

The Legacy 500 also extends your domain in other ways. The midsize aircraft can fly its maximum range from any airport runway that's just over 4,000 feet, and can operate from runways as short as 3,000 feet, giving you direct access to many more destinations.

When put to the test of long-distance flying, the Legacy 500 demonstrates its ability to transcend the perceptions of midsize capabilities. The proof of literally how far you can go with an approach to design that begins by rethinking everything. 

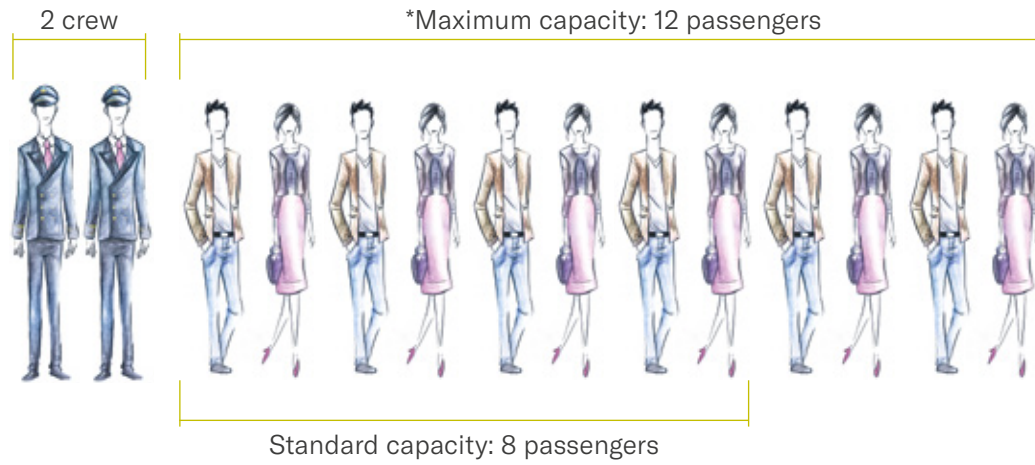
Range: LRC, 4 passengers at 200 lb/each, NBAA IFR reserves, 85% annual winds, ISA, 200 nm alternate airport, baseline aircraft.



SPECIFICATIONS.

We designed the Legacy 500 with innovation as our guide. This new level of style, luxury and technology combine to create the ultimate travel experience. ⬅

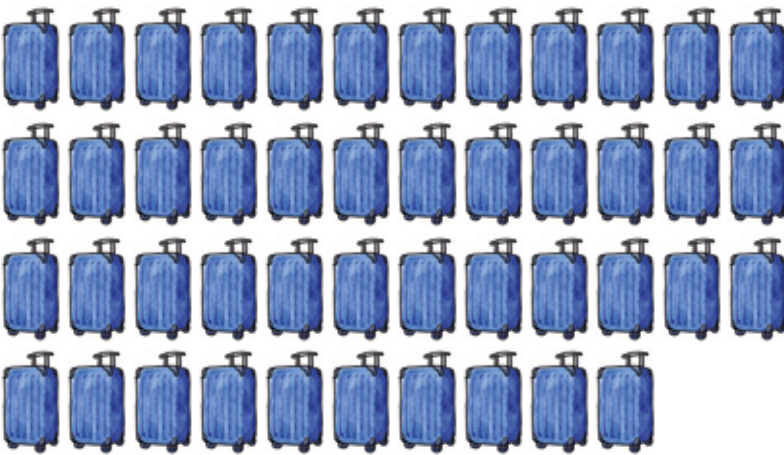
SEATING CONFIGURATION



* For the maximum passengers we are considering the Belted Toilet and Side Facing Seat.

BAGGAGE AND STOWAGE VOLUME

155 ft³ / 4.39 m³



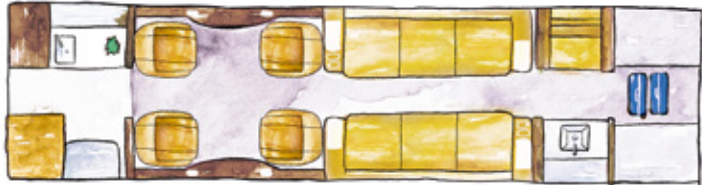
Four Club Seats Layout (*Maximum: 10 passengers)



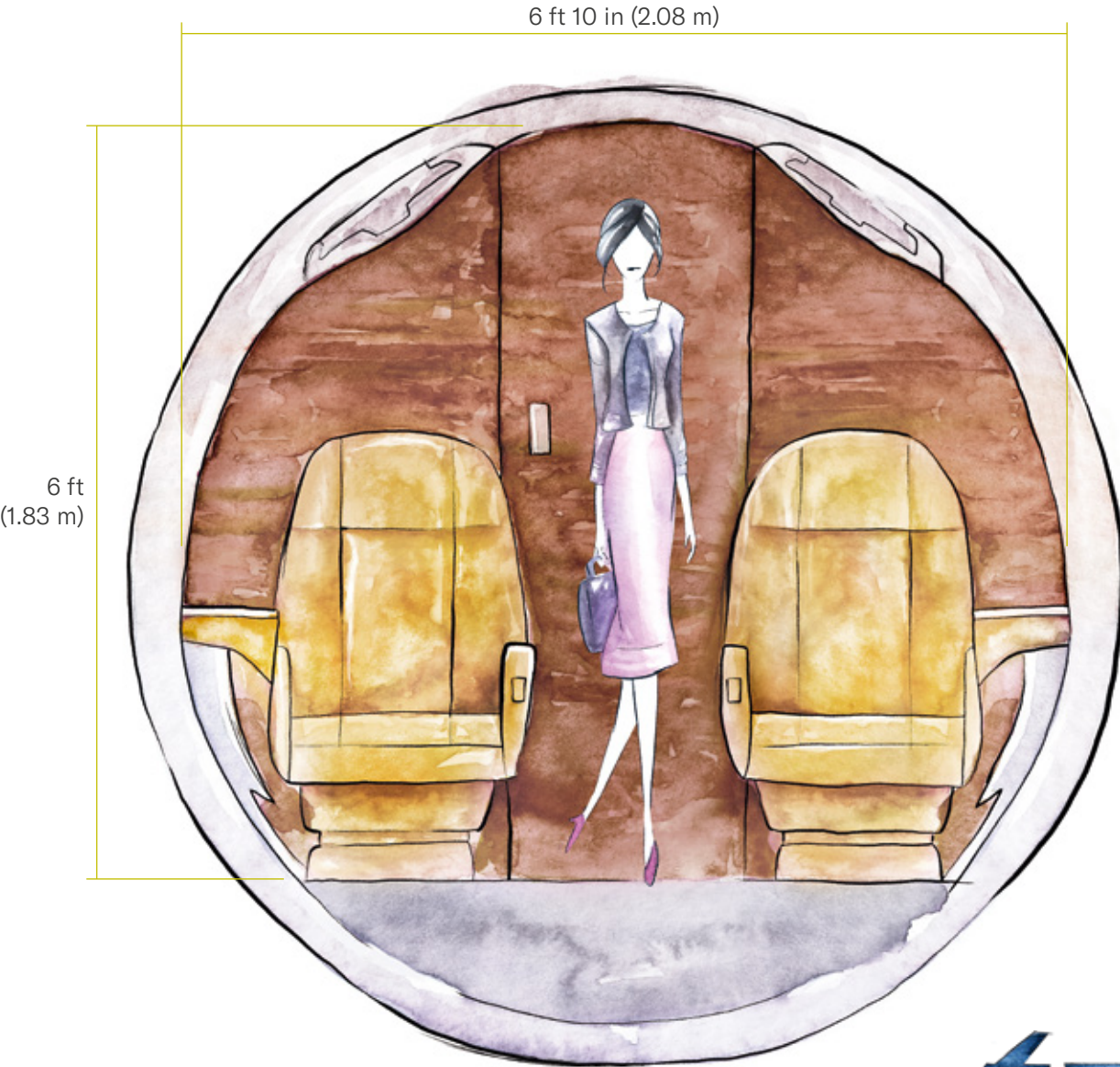
Aft Cabin RHS Divan (*Maximum: 11 passengers)

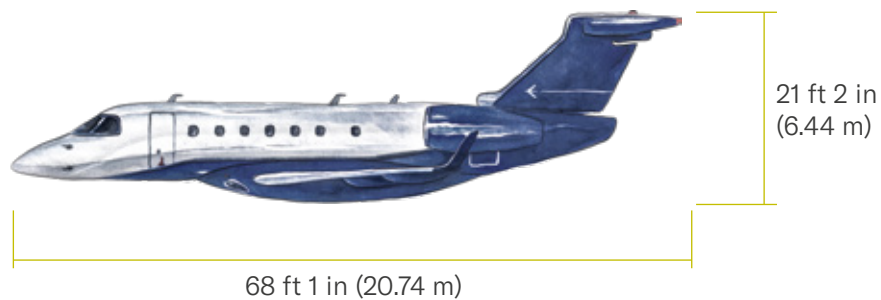


Aft Cabin LHS Divan (*Maximum: 11 passengers)



Aft Cabin Double Divan (*Maximum: 12 passengers)





HIGH-SPEED CRUISE
466 KTAS / 863 km/h

M_{MO}
M 0.83

TAKEOFF DISTANCE (MTOW, SL, ISA)
4,084 ft / 1,245 m

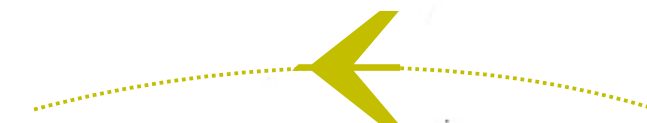
UNFACTORED LANDING DISTANCE
(LW with 4 passengers at 200 lb each, NBAA IFR reserves, SL, ISA)
2,122 ft / 647 m

PROPULSION
Honeywell HTF7500E

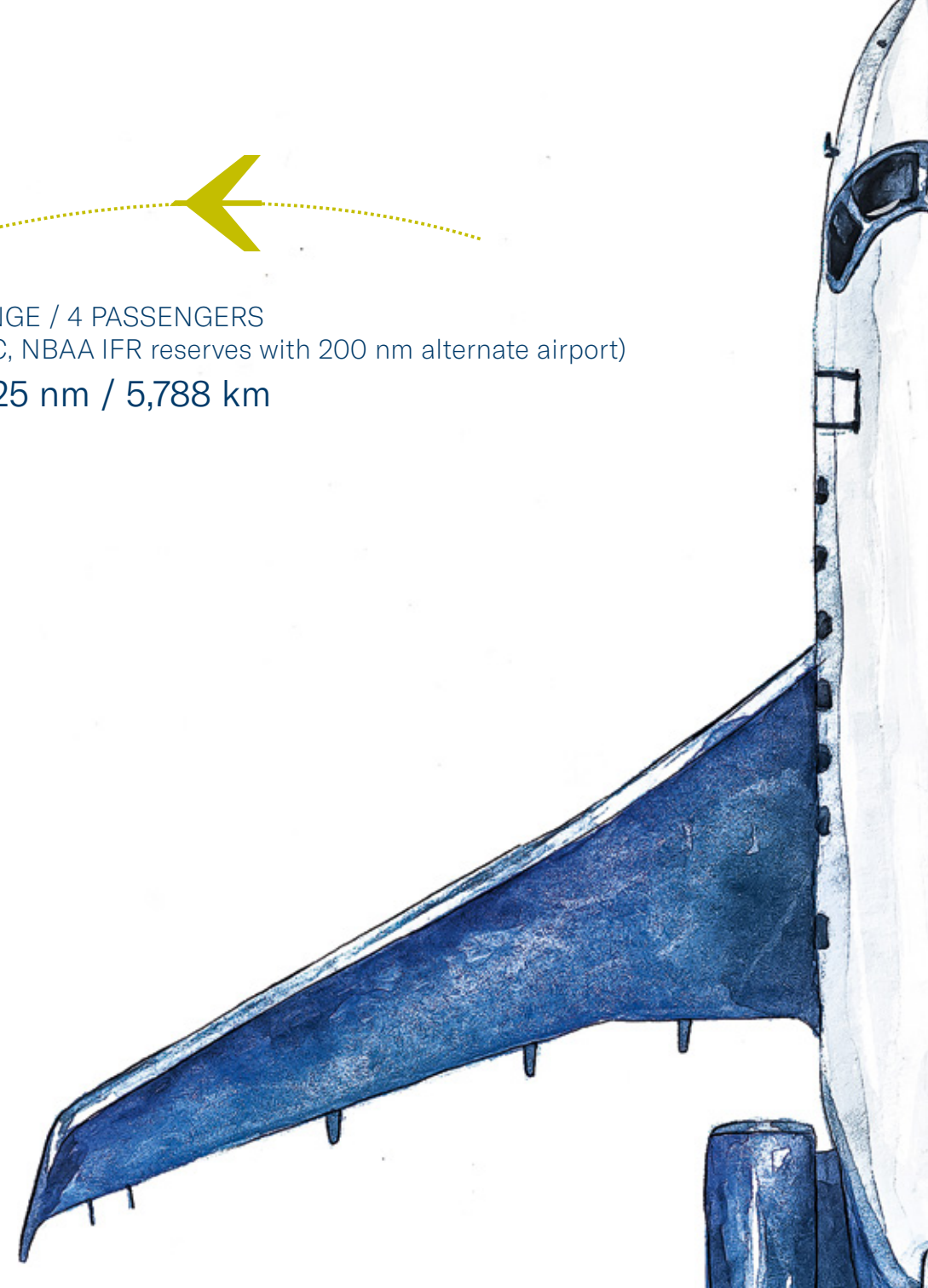
ENGINE THRUST / FLAT RATING
7,036 lb_f / ISA + 18°C

MAXIMUM PAYLOAD
2,800 lb / 1,270 kg

MAXIMUM OPERATING ALTITUDE
45,000 ft / 13,716 m



RANGE / 4 PASSENGERS
(LRC, NBAA IFR reserves with 200 nm alternate airport)
3,125 nm / 5,788 km

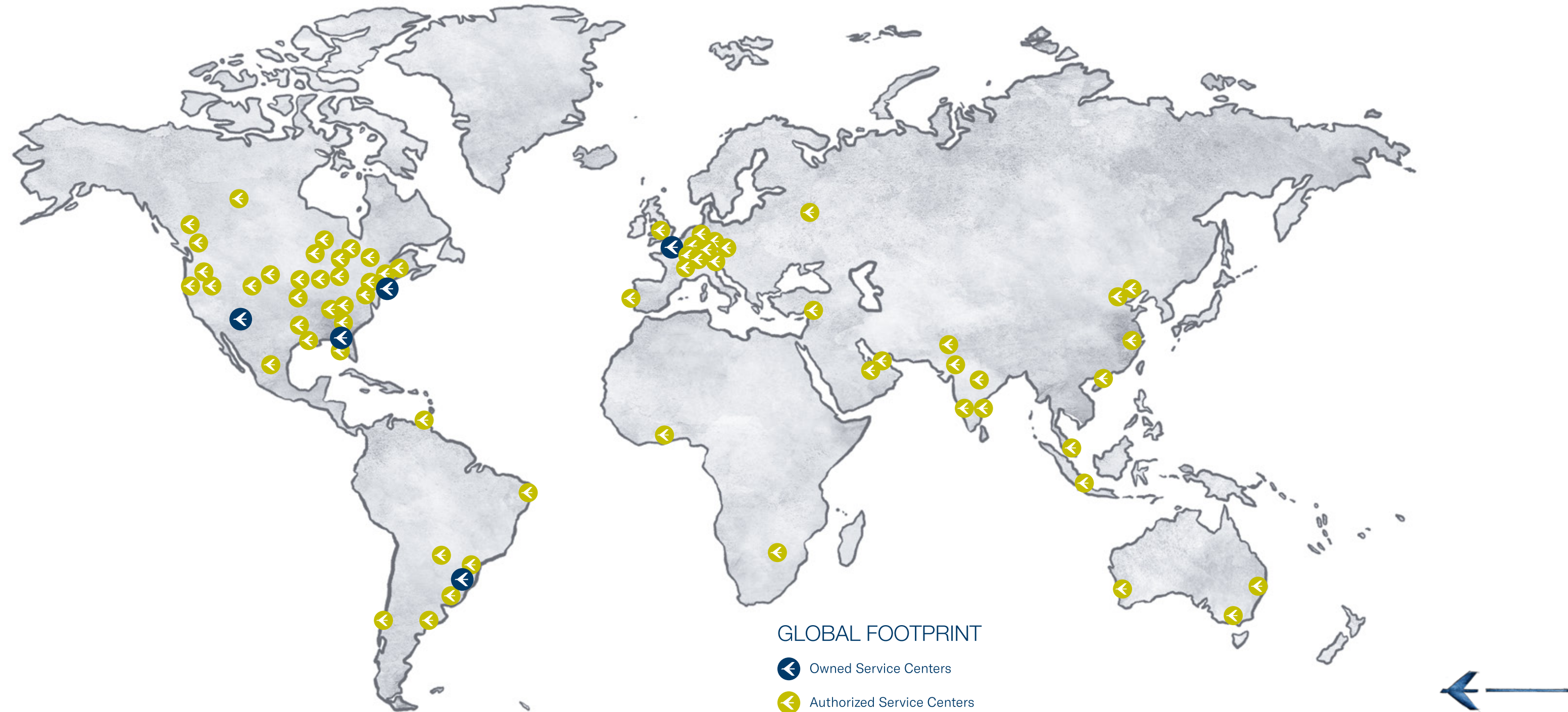


KEEPING YOU ON YOUR JOURNEY.

Embraer Executive Jets' No. 1-ranked Customer Support and Services team is dedicated to ensuring our customers enjoy an optimal experience aboard their business jet. Our priority is to provide you with the best possible support, exceeding your expectations, whenever and wherever you fly.

Our dedicated Customer Support Contact Center, staffed with qualified technicians, offers worldwide support 24/7.

Embraer Executive Jets' global support network includes efficiently located centers and highly trained technicians to ensure the best quality of service. The network has over 70 owned and authorized service centers worldwide, giving you total confidence every time you fly. ✈️






ENVIRONMENTAL RESPONSIBILITY.

Embraer invests in sustainable technologies and contributes to the long-term development of communities in which it is located.

As a result, the Legacy 500 is equipped with the quietest and most efficient engines in the market, along with new technology for lower emissions. Embraer has recently collaborated with Boeing to perform joint tests as part of the ecoDemonstrator program.

In addition to its environmental activities, Embraer seeks to positively transform surrounding communities and develop future Brazilian leaders through the Embraer Institute, which offers quality education for low-income students. 





FULL LINE EMBRAER EXECUTIVE JETS

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PHENOM® 100EV
BY EMBRAER

PERFORMANCE:
Range (4 occupants, NBAA reserves): 1,178 nm
High-speed cruise: 406 ktas
M_{MO}: M 0.70
Max. operating altitude: 41,000ft
Takeoff field length (MTOW, SL, ISA): 3,190 ft

ENGINES:
Pratt & Whitney - PW617F1-E / 1,730 lb_f

AVIONICS:
Prodigy Touch Flight Deck (G3000)

CABIN HIGHLIGHTS:
More leg and head space with Oval Lite® cross section cabin design
Largest windows in class
Refreshment center (optional)
Fully enclosed aft lavatory (optional hard door)
Largest baggage compartment in class
Airstair with handrail and optional step lighting
11 Color schemes available

TECHNOLOGY HIGHLIGHTS:
Clean-sheet design
Single-pilot operation
Synthetic vision system
Synoptic views for main aircraft systems
Central maintenance computer
LED lighting
Trailing link landing gear
Brake-by-wire with antiskid
35,000-hour economic life
Low operating cost

OCCUPANTS: 6/8



PHENOM® 300E
BY EMBRAER

PERFORMANCE:
Range (6 occupants, NBAA reserves): 1,971 nm
High-speed cruise: 453 ktas
M_{MO}: M 0.78
Max. operating altitude: 45,000 ft
Takeoff field length (MTOW, SL, ISA): 3,254 ft

ENGINES:
Pratt & Whitney - PW535E / 3,360 lb_f

AVIONICS:
Prodigy Touch Flight Deck (G3000)

CABIN HIGHLIGHTS:
More leg and head space with Oval Lite® cross section cabin design
Largest windows and refreshment center in class
Choice of multiple cabin configurations
Generous baggage compartment
Airstair with handrail and optional step lighting
IFE compatible with portable electronic devices

TECHNOLOGY HIGHLIGHTS:
Clean-sheet design
Single-pilot operation
Externally serviced lavatory
Airline-like single-point refueling
Synthetic vision system
Synoptic views for main aircraft systems
Central maintenance computer
LED lighting
Brake-by-wire with antiskid
35,000-hour economic life
Low operating cost
Steep-approach capability

OCCUPANTS: 8/11



LEGACY® 450
BY EMBRAER

PERFORMANCE:
Range (4 pax, NBAA reserves): 2,904 nm
High-speed cruise: M 0.82
M_{MO}: M 0.83
Max. operating altitude: 45,000 ft
Takeoff field length (MTOW, SL, ISA): 3,907 ft

ENGINES:
Honeywell - HTF7500E / 6,540 lb_f

AVIONICS:
Rockwell Collins Pro Line Fusion®

CABIN HIGHLIGHTS:
Stand-up cabin with flat floor
Fully equipped wet galley
Choice of multiple cabin configurations
Unique connectivity: Gogo AVANCE L5 and Ka-band
IFE system compatible to portable electronic devices
Vaccum toilet system
Low cabin noise
5,800 ft cabin at maximum cruise altitude

TECHNOLOGY HIGHLIGHTS:
Clean-sheet design
Full fly-by-wire controls with sidestick
Enhanced vision system with head-up display
Inertial system
CDTI (ADS-B In functionalities)
Auto-throttle
Synthetic vision system
Low operating cost
Steep-approach operation

CREW+STANDARD PAX/MAX. PAX: 2+7/9



PRAETOR 500
BY EMBRAER

PERFORMANCE:
Range (4 pax, NBAA reserves): 3,250 nm
High-speed cruise: M 0.82
M_{MO}: M 0.83
Max. operating altitude: 45,000 ft
Takeoff field length (MTOW, SL, ISA): 4,263 ft

ENGINES:
Honeywell - HTF7500E / 6,540 lb_f

AVIONICS:
Rockwell Collins Pro Line Fusion®

CABIN HIGHLIGHTS:
Stand-up cabin with flat floor
Fully equipped wet galley
Choice of multiple cabin configurations
Unique connectivity: Gogo AVANCE L5 and Ka-band
IFE system compatible to portable electronic devices
Vaccum toilet system
Low cabin noise
5,800 ft cabin at maximum cruise altitude

TECHNOLOGY HIGHLIGHTS:
Clean-sheet design
Full fly-by-wire controls with sidestick
Enhanced vision system with head-up display
Inertial system
CDTI (ADS-B In functionalities)
Auto-throttle
Synthetic vision system
Low operating cost
Steep-approach operation

CREW+STANDARD PAX/MAX. PAX: 2+7/9



LEGACY® 500
BY EMBRAER

PERFORMANCE:
Range (4 pax, NBAA reserves): 3,125 nm
High-speed cruise: M 0.82
M_{MO}: M 0.83
Max. operating altitude: 45,000 ft
Takeoff field length (MTOW, SL, ISA): 4,084 ft

ENGINES:
Honeywell - HTF7500E / 7,036 lb_f

AVIONICS:
Rockwell Collins Pro Line Fusion®

CABIN HIGHLIGHTS:
Stand-up cabin with flat floor
Fully equipped wet galley
Choice of multiple cabin configurations
Unique connectivity: Gogo AVANCE L5 and Ka-band
IFE system compatible to portable electronic devices
Vaccum toilet system
Low cabin noise
5,800 ft cabin at maximum cruise altitude

TECHNOLOGY HIGHLIGHTS:
Clean-sheet design
Full fly-by-wire controls with sidestick
Enhanced vision system with head-up display
Inertial system
CDTI (ADS-B In functionalities)
Auto-throttle
Synthetic vision system
Low operating cost
Steep-approach operation

CREW+STANDARD PAX/MAX. PAX: 2+8/12



PRAETOR 600
BY EMBRAER

PERFORMANCE:
Range (4 pax, NBAA reserves): 3,900 nm
High-speed cruise: M 0.82
M_{MO}: M 0.83
Max. operating altitude: 45,000 ft
Takeoff field length (MTOW, SL, ISA): 4,800 ft

ENGINES:
Honeywell - HTF7500E / 7,528 lb_f

AVIONICS:
Rockwell Collins Pro Line Fusion®

CABIN HIGHLIGHTS:
Stand-up cabin with flat floor
Fully equipped wet galley
Choice of multiple cabin configurations
Unique connectivity: Gogo AVANCE L5 and Ka-band
IFE system compatible to portable electronic devices
Vaccum toilet system
Low cabin noise
5,800 ft cabin at maximum cruise altitude

TECHNOLOGY HIGHLIGHTS:
Clean-sheet design
Full fly-by-wire controls with sidestick
Enhanced vision system with head-up display
Inertial system
CDTI (ADS-B In functionalities)
Auto-throttle
Synthetic vision system
Low operating cost
Steep-approach operation

CREW+STANDARD PAX/MAX. PAX: 2+8/12



LEGACY® 650E
BY EMBRAER

PERFORMANCE:
Range (4 pax, NBAA reserves): 3,900 nm
High-speed cruise: M 0.80
M_{MO}: M 0.80
Max. operating altitude: 41,000 ft
Takeoff field length (MTOW, SL, ISA): 5,741 ft

ENGINES:
Rolls Royce - AE3007A2 / 9,020 lb_f

AVIONICS:
Honeywell Primus Elite

CABIN HIGHLIGHTS:
Three spacious cabin zones
Fully reclining seats
22 oversized windows
Multiple cabin configurations
IFE system compatible with portable electronic devices
Fully equipped wet galley
Largest baggage compartment in business aviation
Low cabin noise
Baggage compartment accessible in flight

TECHNOLOGY HIGHLIGHTS:
Designed for high utilization and high availability
Auto-throttle
Synthetic vision system
iPad EFB
Low operating cost
Steep-approach capability

CREW+STANDARD PAX/MAX. PAX: 2+13/14



Lineage® 1000E
BY EMBRAER

PERFORMANCE:
Range (8 pax, NBAA reserves): 4,600 nm
High-speed cruise: M 0.82
M_{MO}: M 0.82
Max. operating altitude: 41,000 ft
Takeoff field length (MTOW, SL, ISA): 6,076 ft

ENGINES:
General Electric - CF34-10E7-B / 18,500 lb_f

AVIONICS:
Honeywell Primus Epic

CABIN HIGHLIGHTS:
Five spacious cabin zones
Three lavatories and stand-up shower (optional)
Queen-size bed (optional)
Highly customizable cabin
Complete audio and entertainment systems
IFE system compatible with portable electronic devices
Fully equipped wet galley
Largest baggage compartment in class
Baggage compartment accessible in flight

TECHNOLOGY HIGHLIGHTS:
Fly-by-wire technology
Designed for high utilization and high availability
Central maintenance computer
Intuitive interface with cursor control device
Steep-approach capability
Operation in restrictive airports

CREW+STANDARD PAX: 2/3+13/19

embraer.com



CHALLENGE.
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OUTPERFORM.