

[EmbraerExecutiveJets.com](http://EmbraerExecutiveJets.com)

# LEGACY<sup>®</sup> 500

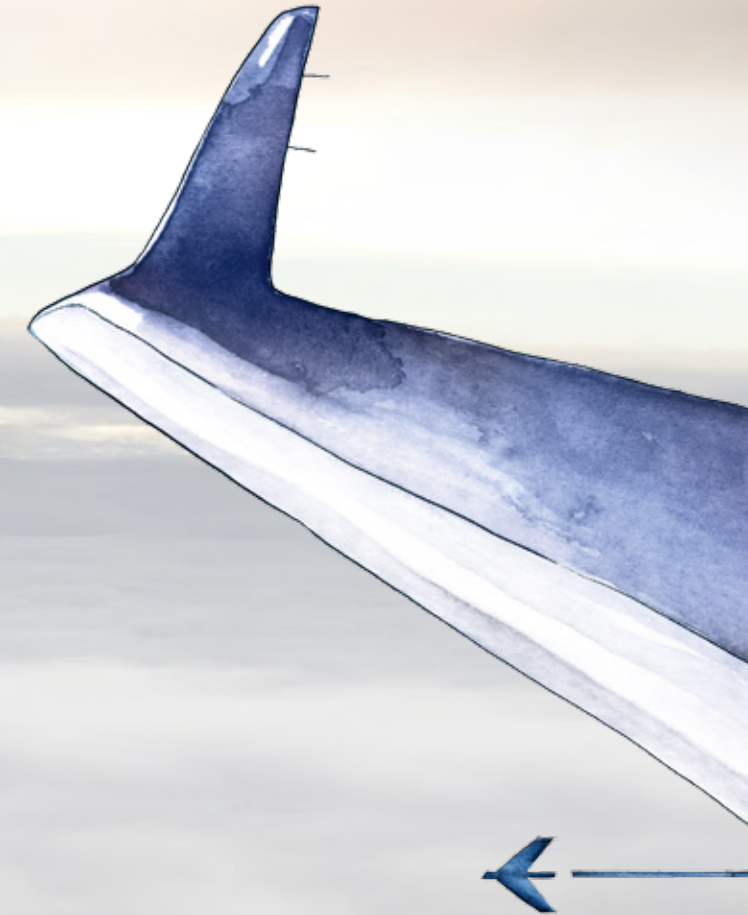
B Y E M B R A E R



CHALLENGE.  
CREATE.  
OUTPERFORM.



ENJOYING EVERY MOMENT  
OF YOUR JOURNEY.



FLYING IS A MIRACLE  
THAT CAN BE CONSTANTLY IMPROVED UPON.



# CHALLENGING THE STATUS QUO.

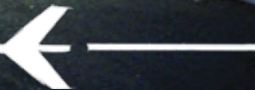
Our approach to challenging the status quo is expressed in our slogan: Rethink Convention. But it's more than a slogan. It's our philosophy.

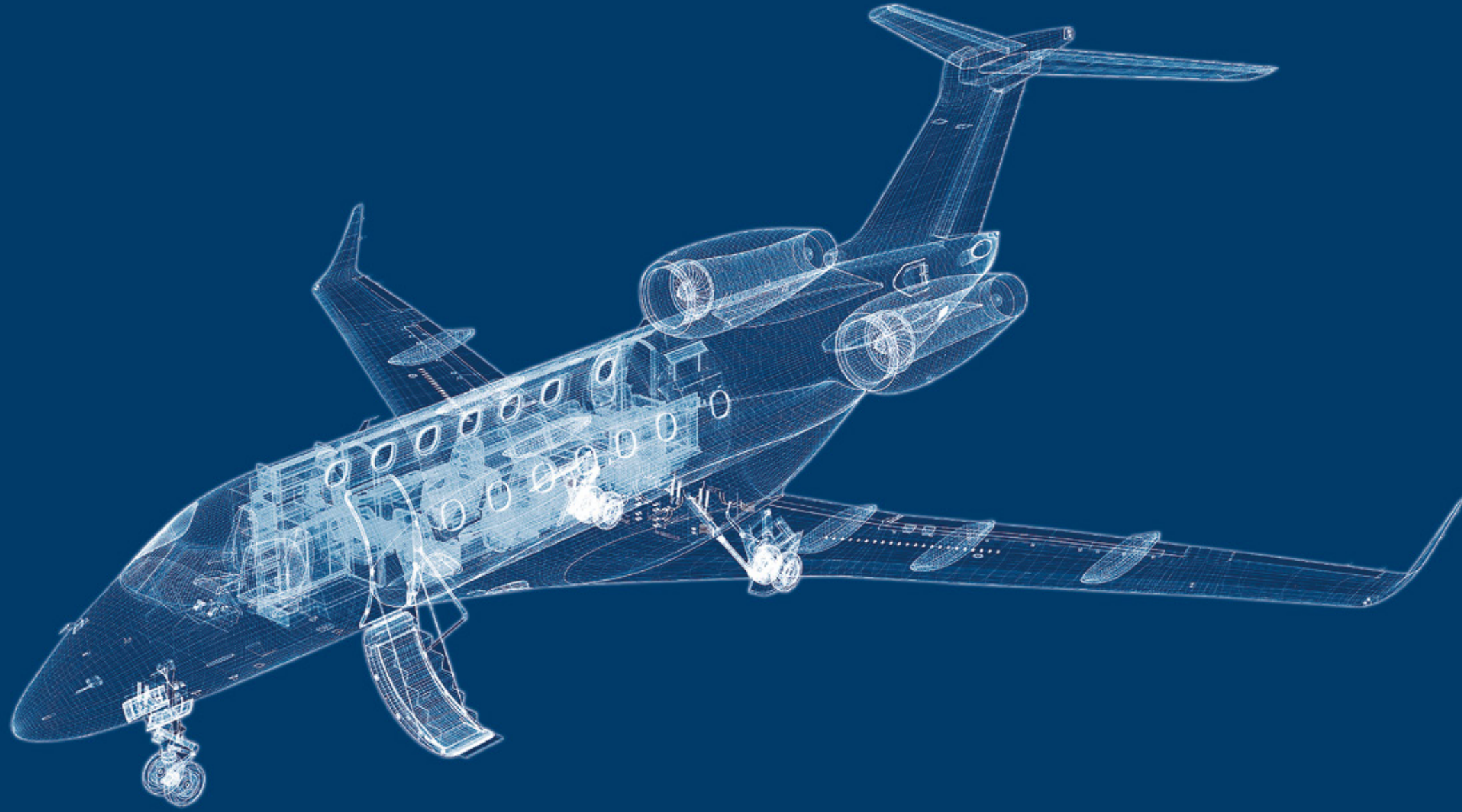
When we announced in 2008 that we were embarking on the development of a new-generation midsize business jet, we knew we had a tremendous opportunity. Our goal was to bring to this category innovative solutions for performance and comfort, offering advanced technologies from the flight deck to the cabin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





# 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 City / United Kingdom



Aspen / USA

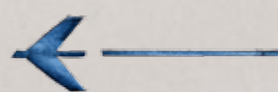


Hong Kong / China






LUXURY  
BEYOND COMPARE.



AND AN INCREDIBLE  
NOTION OF SPACE.



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. ←



A SMOOTH,  
QUIET JOURNEY.

The maximum cabin altitude of 6,000 feet and ultra-quiet environment are ideal for working, conversation or relaxing. ←





Seat massage and heat controls / Satellite phone

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.

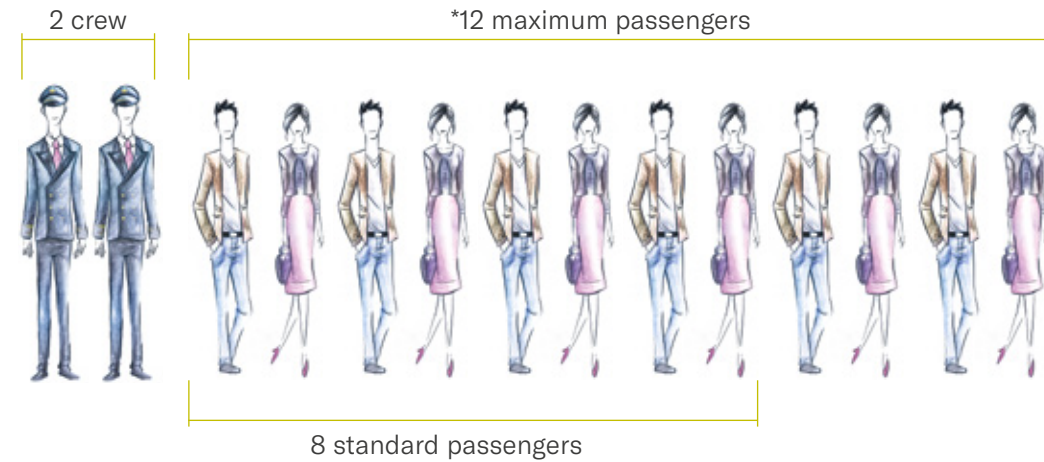




# SPECIFICATIONS.

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. ←

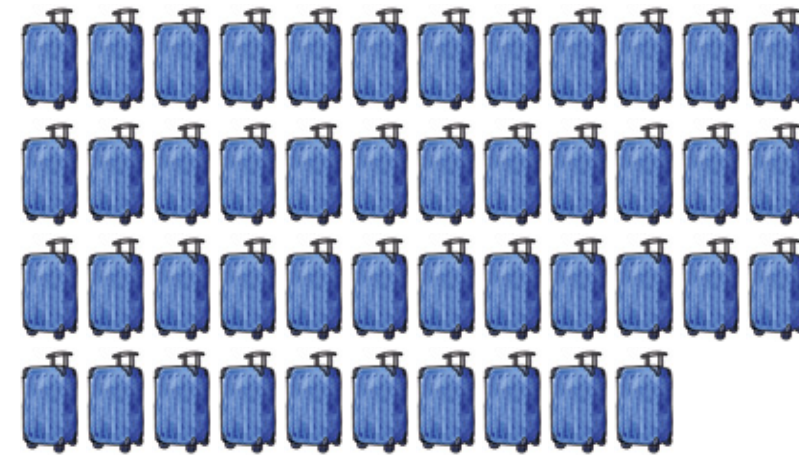
## SEATING CONFIGURATION



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

## BAGGAGE AND STOWAGE VOLUME

155 cu.ft / 4.389 L



Four Club Seats Layout (\*Maximum: 10 passengers)



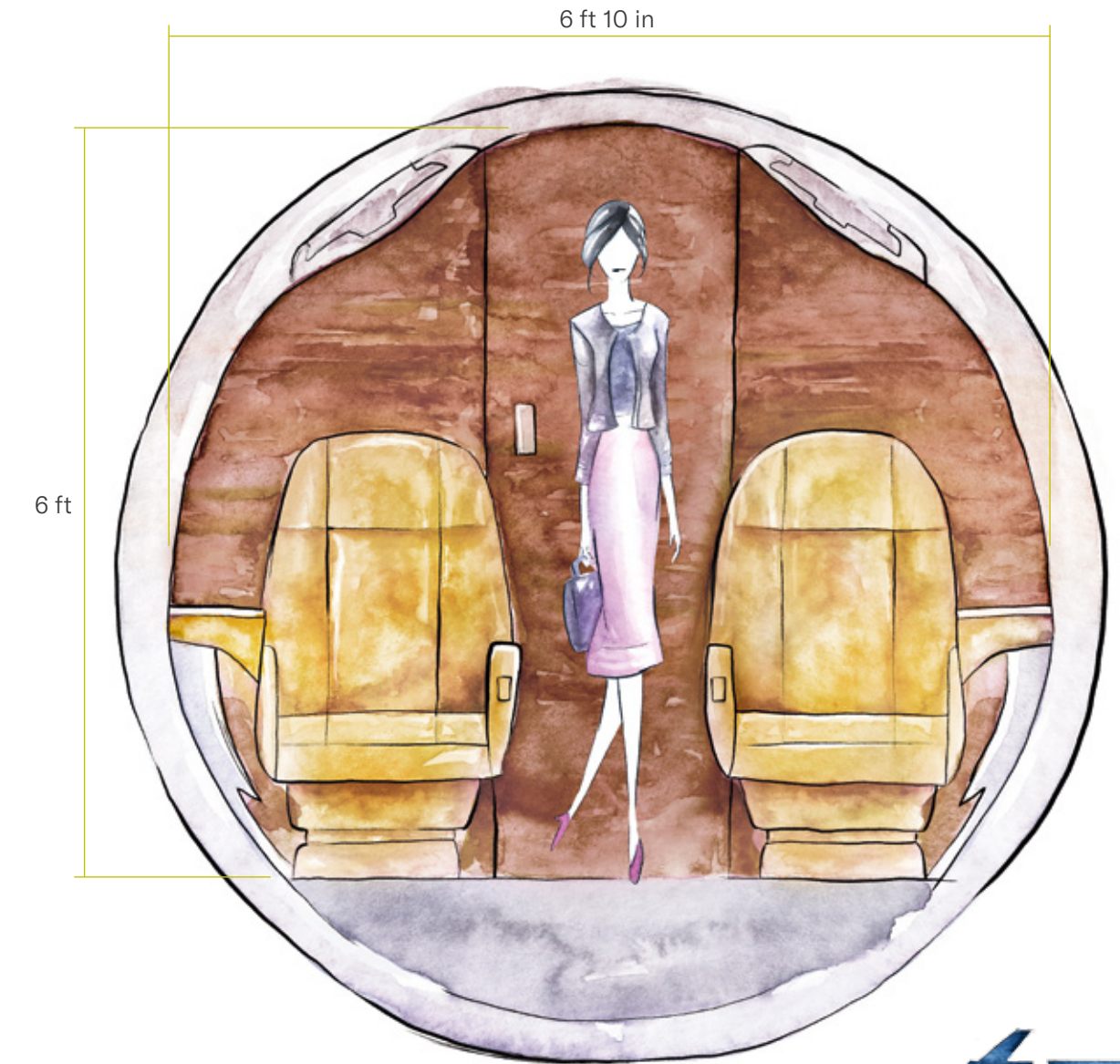
Aft Cabin RHS Divan (\*Maximum: 11 passengers)

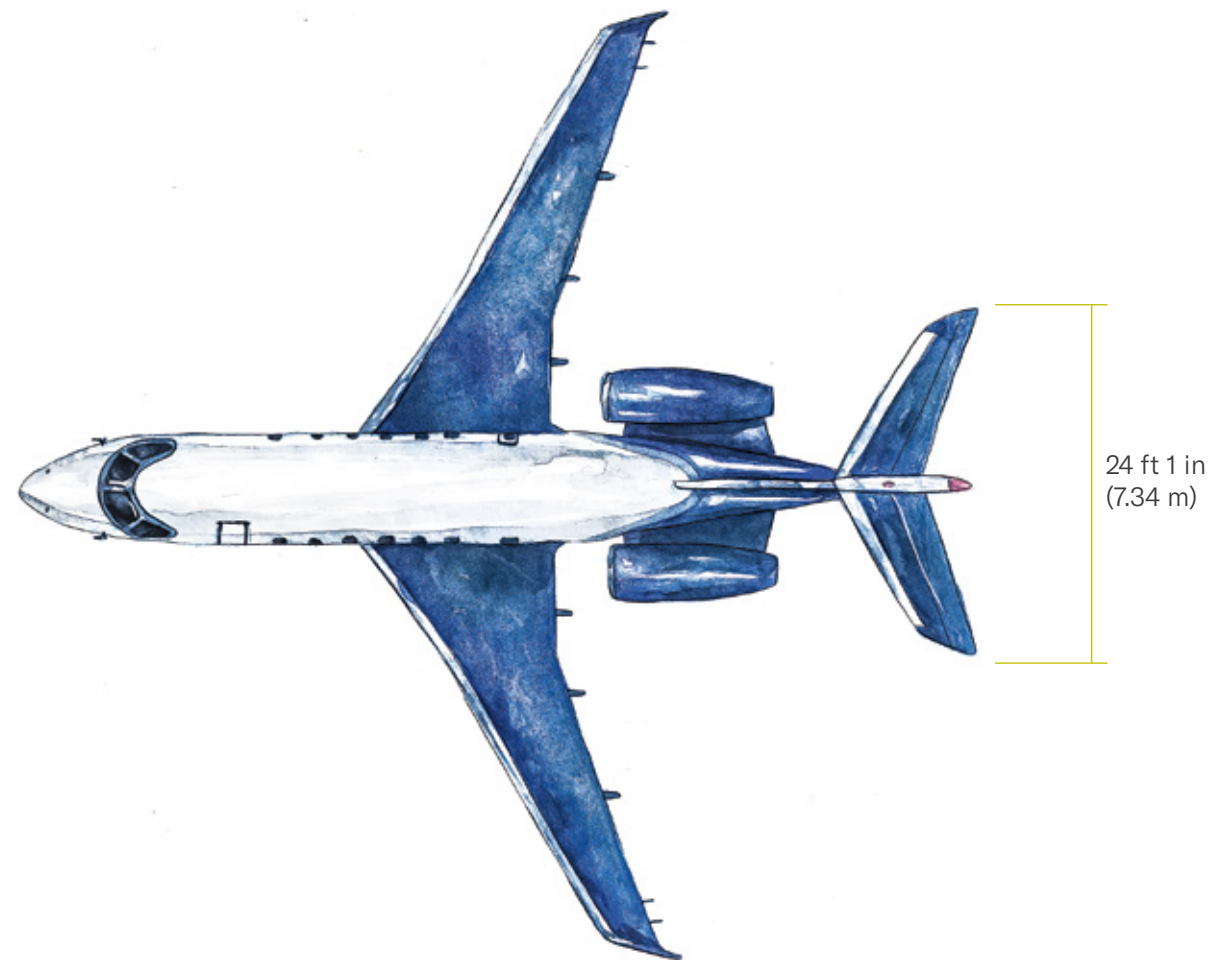


Aft Cabin LHS Divan (\*Maximum: 11 passengers)



Aft Cabin Double Divan (\*Maximum: 12 passengers)





24 ft 1 in  
(7.34 m)



66 ft 5 in (20.25 m)



21 ft 2 in  
(6.44 m)

68 ft 1 in (20.74 m)

HIGH-SPEED CRUISE  
466 KTAS / 863 km/h

MMO  
M 0.83

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

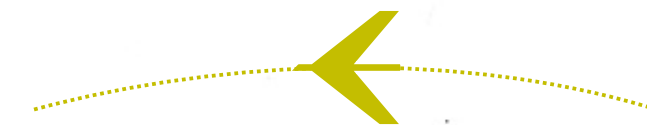
UNFACTORED LANDING DISTANCE  
(LW with 4 passengers at 200 lb each, NBAA IFR reserves, SL, ISA)  
2,122 ft / 647 m

PROPULSION  
Honeywell HTF7500E

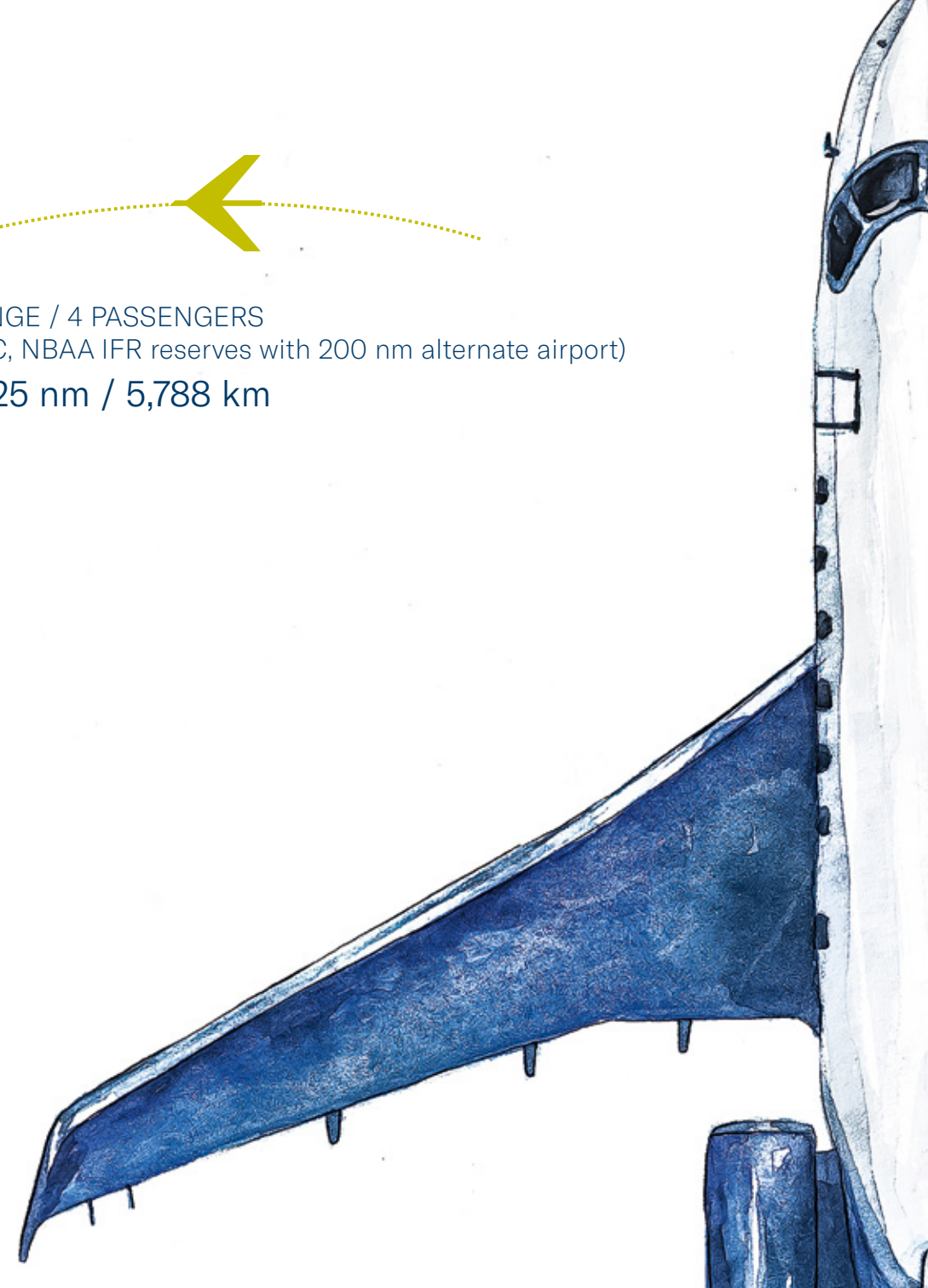
ENGINE THRUST / FLAT RATING  
7,036 lbf / ISA + 18°C

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

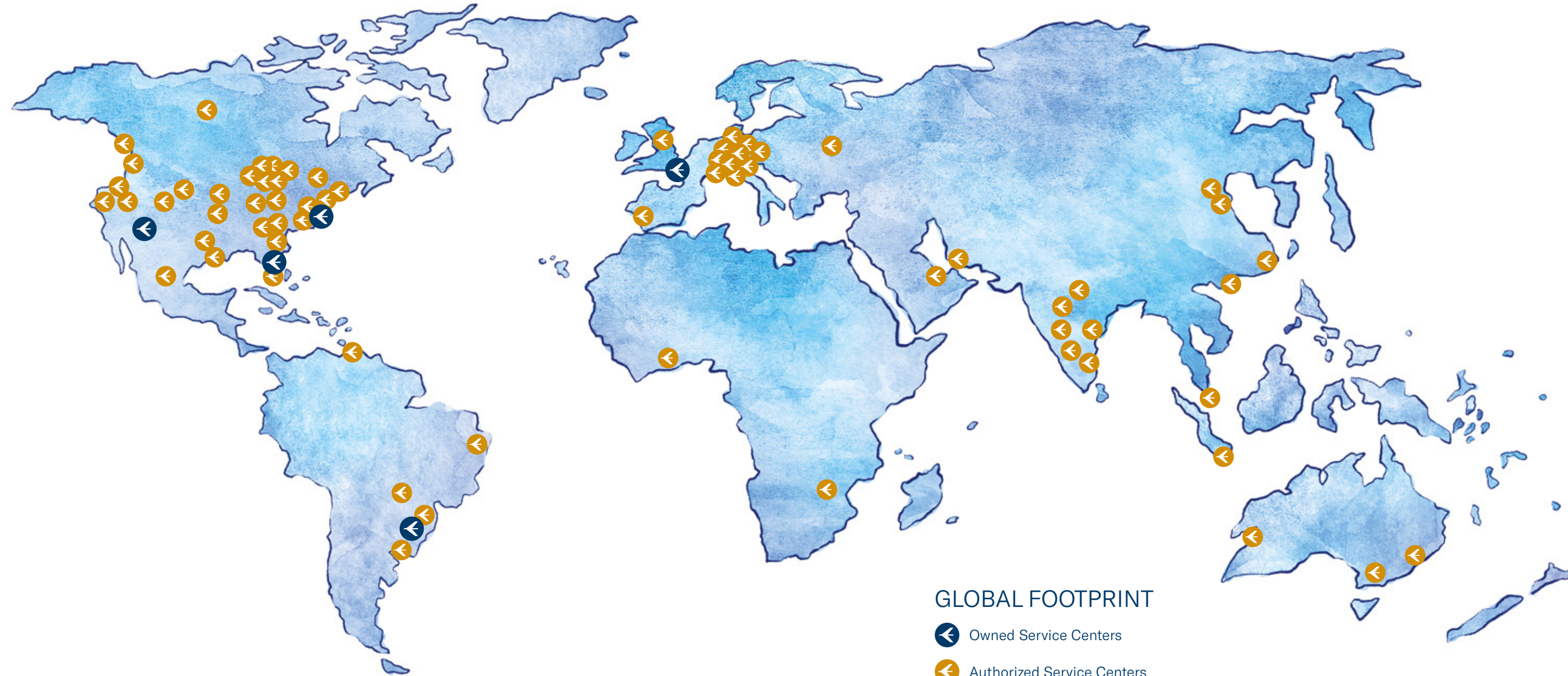


# KEEPING YOU ON YOUR JOURNEY.

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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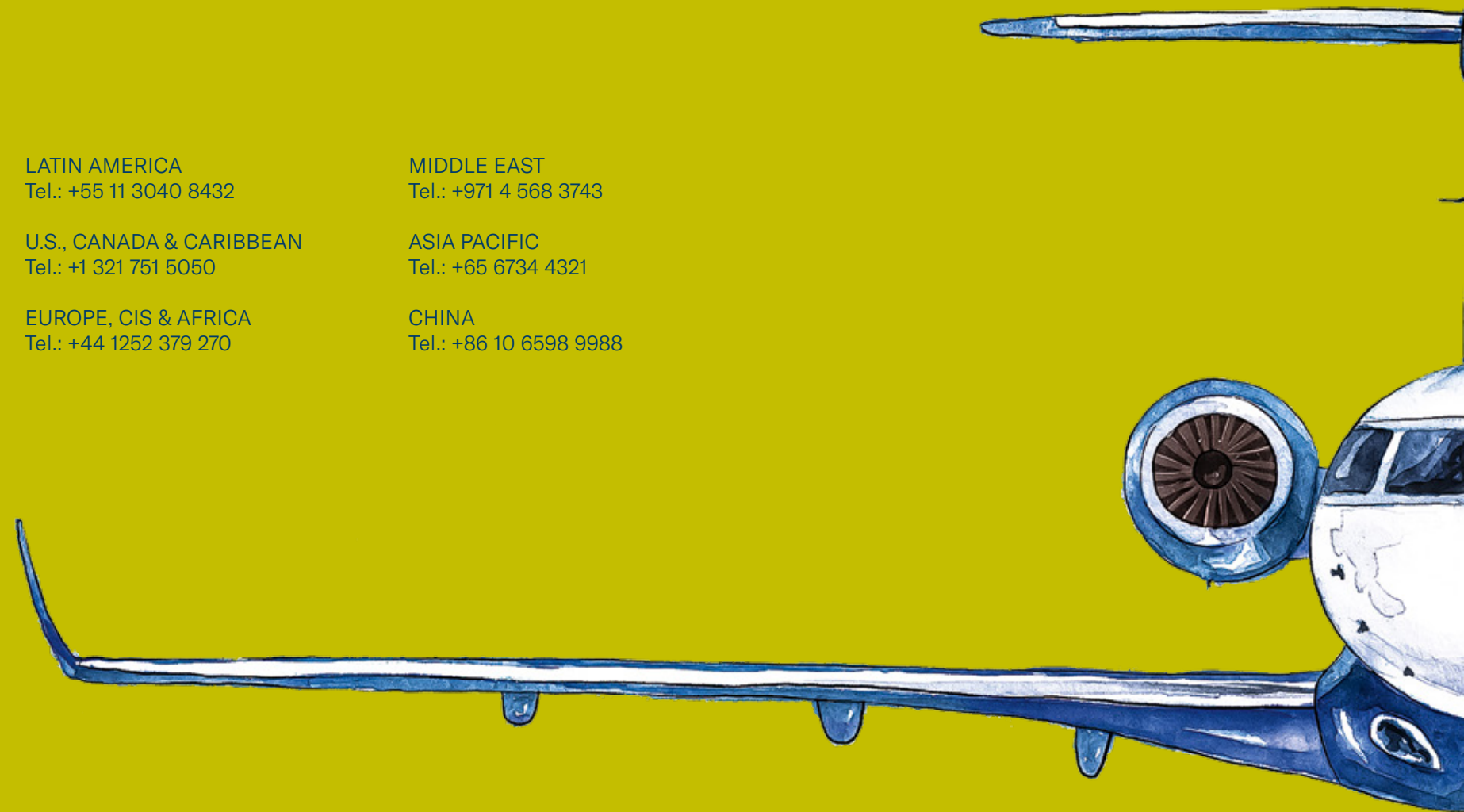
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## PHENOM® 100

BY EMBRAER

### PERFORMANCE:

Range (4 occupants, NBAA reserves): 1,178 nm  
High-speed cruise: 405 ktas  
MMO: M 0.70  
Max. operating altitude: 41,000ft  
Takeoff field length (MTOW, SL, ISA): 3,190 ft

### ENGINES:

Pratt & Whitney - PW617F1-E / 1,730 lbf

### AVIONICS:

Prodigy Touch Flight Deck (G3000)

### CABIN HIGHLIGHTS:

Roomiest cabin and largest windows in class  
Refreshment center (optional)  
Fully enclosed aft lavatory (optional hard door)  
Largest baggage compartment in class  
Airstair

### TECHNOLOGY HIGHLIGHTS:

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

Occupants: 6/8



## PHENOM® 300

BY EMBRAER

### PERFORMANCE:

Range (6 occupants, NBAA reserves): 1,971 nm  
High-speed cruise: 453 ktas  
MMO: M 0.78  
Max. operating altitude: 45,000 ft  
Takeoff field length (MTOW, SL, ISA): 3,138 ft

### ENGINES:

Pratt & Whitney - PW535E / 3,360 lbf

### AVIONICS:

Prodigy Touch Flight Deck (G3000)

### CABIN HIGHLIGHTS:

Roomiest cabin and largest windows in class  
Refreshment center  
Choice of multiple cabin configurations  
Largest baggage compartment in class  
Airstair

### 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  
Lighting system based on LED  
Brake-by-wire with antiskid  
35,000-hour economic life  
Low operating cost  
Steep-approach operation

Occupants: 8/11



## LEGACY® 450

BY EMBRAER

### PERFORMANCE:

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

### ENGINES:

Honeywell - HTF7500E / 6,540 lbf

### AVIONICS:

Rockwell Collins Pro Line Fusion

### CABIN HIGHLIGHTS:

Roomiest cabin in class  
Stand-up cabin with flat floor  
Fully equipped wet galley (optional)  
Choice of multiple cabin configurations  
IFE system compatible to portable electronic devices  
Largest baggage compartment in class  
Low cabin noise  
6,000 ft cabin at maximum cruise altitude

### TECHNOLOGY HIGHLIGHTS:

Clean-sheet design  
Full fly-by-wire controls with sidestick  
Enhanced vision system (optional)  
Head-up display (optional)  
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  
MMO: M 0.83  
Max. operating altitude: 45,000 ft  
Takeoff field length (MTOW, SL, ISA): 4,084 ft

### ENGINES:

Honeywell - HTF7500E / 7,036 lbf

### AVIONICS:

Rockwell Collins Pro Line Fusion

### CABIN HIGHLIGHTS:

Roomiest cabin in class  
Stand-up cabin with flat floor  
Fully equipped wet galley  
Choice of multiple cabin configurations  
IFE system compatible to portable electronic devices  
Largest baggage compartment in class  
Low cabin noise  
6,000 ft cabin at maximum cruise altitude

### TECHNOLOGY HIGHLIGHTS:

Clean-sheet design  
Full fly-by-wire controls with sidestick  
Enhanced vision system (optional)  
Head-up display (optional)  
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  
MMO: M 0.80  
Max. operating altitude: 41,000 ft  
Takeoff field length (MTOW, SL, ISA): 5,741 ft

### ENGINES:

Rolls Royce - AE3007A2 / 9,020 lbf

### AVIONICS:

Honeywell Primus Elite

### CABIN HIGHLIGHTS:

Three spacious cabin zones  
Fully reclining seats  
22 oversized windows  
Choice of multiple cabin configurations  
IFE system compatible to portable electronic devices  
Fully equipped wet galley  
Largest baggage compartment in class  
Low cabin noise  
Baggage compartment in-flight access

### TECHNOLOGY HIGHLIGHTS:

Designed for high utilization and high availability  
Auto-throttle  
Synthetic vision system  
iPad EFB  
Low operating cost  
Steep-approach operation

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  
MMO: M 0.82  
Max. operating altitude: 41,000 ft  
Takeoff field length (MTOW, SL, ISA): 6,076 ft

### ENGINES:

General Electric - CF-34-10E7-B / 18,500 lbf

### AVIONICS:

Honeywell Primus Epic

### CABIN HIGHLIGHTS:

Five spacious cabin zones  
Three lavatories and stand-up shower (optional)  
Queen-size bed (optional)  
Hundreds of ways to customize the configuration  
Complete audio and entertainment systems  
IFE system compatible to portable electronic devices  
Fully equipped wet galley  
Largest baggage compartment in class  
Baggage compartment in-flight access

### TECHNOLOGY HIGHLIGHTS:

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

CREW+STANDARD PAX: 2+19



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CHALLENGE.  
CREATE.  
OUTPERFORM.