



LEGACY® 650  
BY EMBRAER

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## ← INNOVATION

The Legacy 650 makes every journey effortless for both passengers and crew. With the innovative Honeywell Primus Elite™ avionics suite, this jet is a pilot's dream. And for passengers we've added all the business, entertainment and relaxation tools for the ultimate flight experience.

## ← COMFORT

The Legacy 650 has the largest cabin – with three distinct zones – the largest galley and largest lavatory in its class. Every convenience has been considered. That's why the class-leading baggage compartment is fully accessible during flight, making sure you always have everything you need, or want.

## ← ERGONOMICS

The Legacy 650's highly intuitive cabin management system takes the in-flight experience to the next level. Its seamless connectivity, high definition capabilities and integrated Apple TV create the best possible on-board passenger experience.

## ← PERFORMANCE

The Legacy 650 is a jet that works as hard as you do. It has outstanding capability in hot or high destinations. Not to mention a 99.8% dispatch reliability over 21 million flight hours, creating one of the best man-hour to flight-hour ratios in the large category.



← REDEFINING THE LARGE CATEGORY

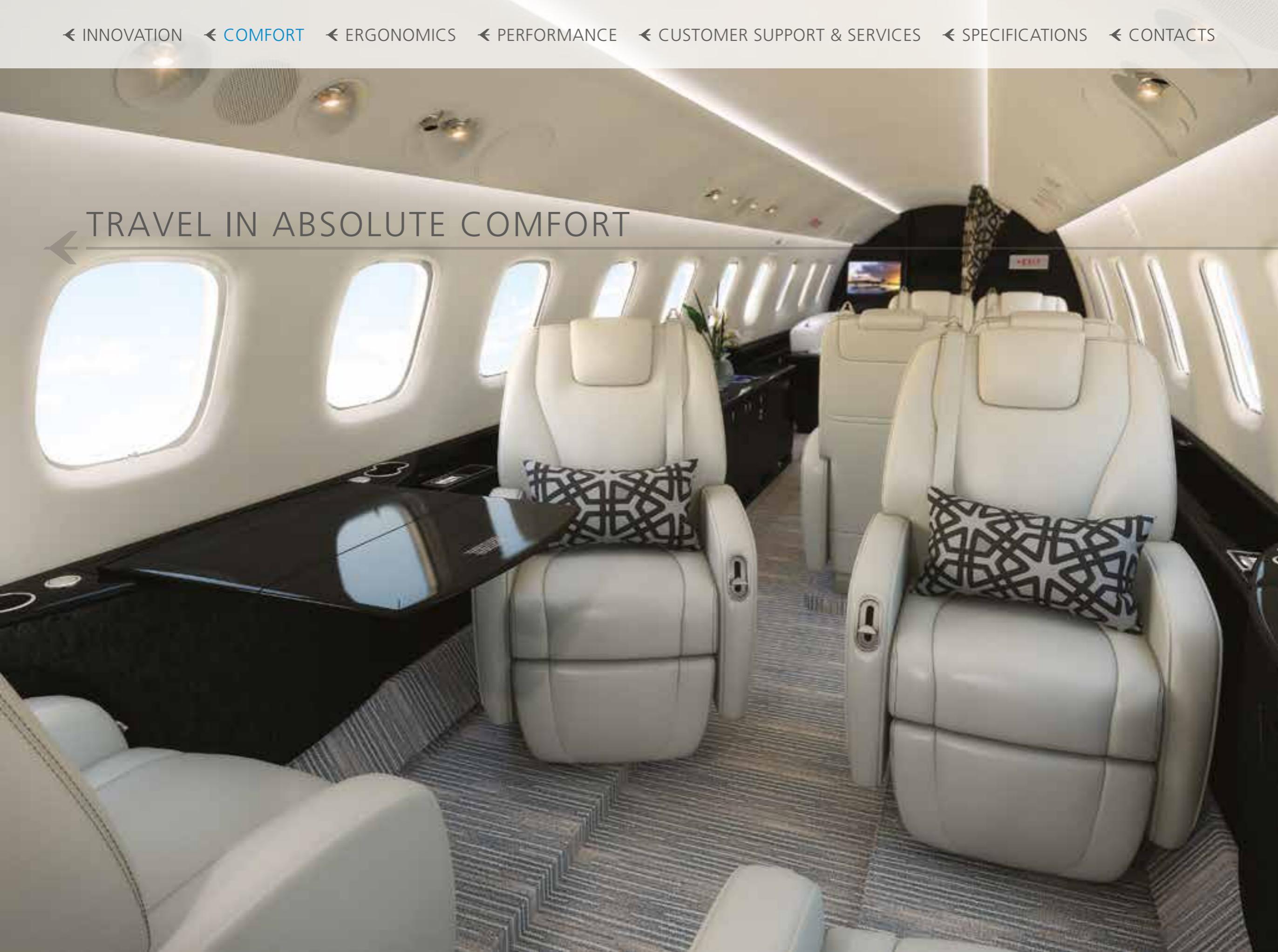


← PROVEN PLATFORM

LEARN MORE ABOUT LEGACY 650  
TECHNOLOGY ONLINE

CLICK HERE

← TRAVEL IN ABSOLUTE COMFORT





← SPACE BY DESIGN

LEARN MORE ABOUT LEGACY 650 COMFORT ONLINE

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← ATTENTION TO DETAIL

# ← INTUITIVE CONTROL



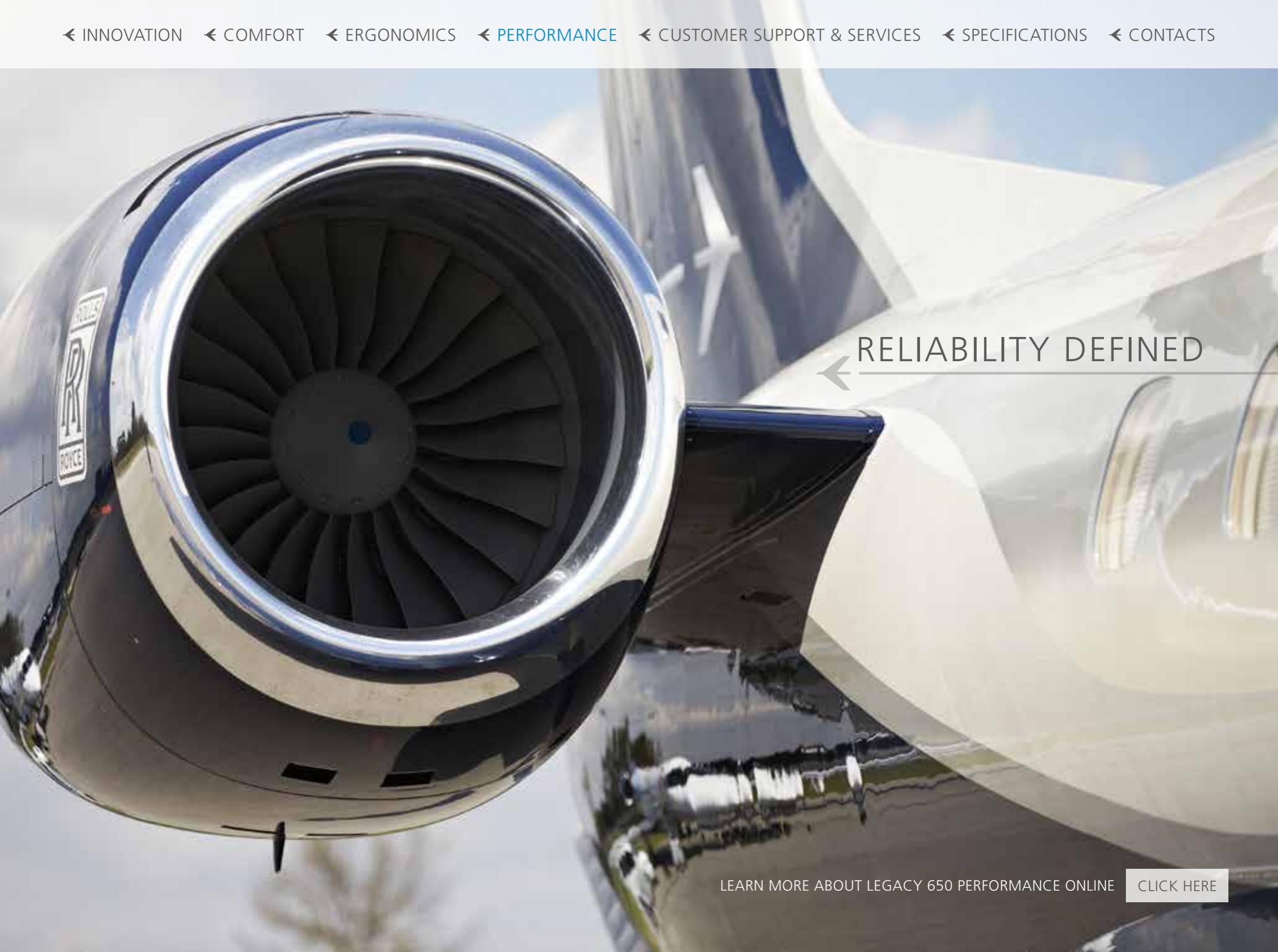
LEARN MORE ABOUT LEGACY 650 ERGONOMICS ONLINE

[CLICK HERE](#)

VIDAS  
RES

# ← AN OUTSTANDING PERFORMER





← RELIABILITY DEFINED

LEARN MORE ABOUT LEGACY 650 PERFORMANCE ONLINE

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## ← AT YOUR SERVICE



Global distribution of Embraer Executive Jets owned and authorized service centers

← EMBRAER EXECUTIVE JETS OWNED SERVICE CENTER ● AUTHORIZED SERVICE CENTER ★ PARTS DISTRIBUTION CENTER

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# LEGACY® 650

BY EMBRAER

With the largest galley, lavatory and baggage compartment in its class, the quiet, three-zone cabin of the Legacy 650 allows you to work, dine or rest in complete comfort.

## PERFORMANCE DATA

Range @ 4 pax (LRC, NBAA IFR res.)	3,900 nm / 7,223 km
Range @ 8 pax (LRC, NBAA IFR res.)	3,840 nm / 7,112 km
Normal Speed Cruise	M 0.78
Maximum Operating Speed	M 0.80
TOFL (MTOW, SL, ISA)	5,741 ft / 1,750 m
Unfactored Landing Distance (Typical LW, SL, ISA)	2,842 ft / 866 m
Maximum Payload	4,939 lb / 2,240 kg
Maximum Operating Altitude	41,000 ft / 12,497 m
Propulsion	Rolls-Royce AE 3007 A2
Engine Thrust / Flat Rating	9,020 lbf / ISA + 15°C
Avionics	Honeywell Primus Elite™
Total Baggage Capacity	286 cu.ft / 8.1 cu.m
Seating Capacity (crew + standard pax / max pax)	2 / 3 + 13 / 14



## AVIONICS – HONEYWELL PRIMUS ELITE™

- Outstanding operational flexibility in:
  - Busy airspace
  - Terrain-challenged airports
  - Poor weather conditions
- Five 8" x 7" LCD Displays + CCD
- Charts and maps capability
- Coupled VNAV
- RNP 0.3
- Data loader 1000 with SD card and USB ports
- XM weather capability (US only)
- WAAS / LPV
- SmartRunway™ / SmartLanding™ (RAAS)
- FANS 1/A CPDLC + Datalink Recorder
- Central Maintenance Computer (CMC)
- Dual Integrated Computers
- Dual FMS / GPS
- Dual Inertial Reference System (IRS)
- Dual RVSM-compliant ADC
- CAT I and CAT II autopilot / flight director
- Integrated Stand-by Instruments System (ISIS)
- Electronic Flight Bag – CMC PilotView Class II

Some features are optional. The EFBS are optional items.

**SUPERIOR HONEYWELL OVATION SELECT™  
CABIN MANAGEMENT SYSTEM**

- Full HD system with surround sound
- Blu-ray player and auxiliary inputs for HDMI, VGA, composite and USB interfaces. Up to two iPod / iPhone docking stations
- Choices of full HD LCD, up to 24" plus 9" individual monitors for seating positions
- XM Radio with 4 independent channels (US only)
- JetMap® high-resolution 3D moving map
- Touchscreen PCUs at each seat
- Media Center for 3rd cabin zone

BRIGHT CABIN WITH LARGE WINDOWS OPTIMALLY PLACED FOR EACH SEATING POSITION

**LARGEST LAVATORY IN ITS CLASS**

- Full-width lavatory with ample closet space
- Vanity unit with sink – hot and cold water
- Optional forward lavatory (externally serviced)

FULLY BERTHING SEATS

LARGEST IN-FLIGHT ACCESSIBLE  
BAGGAGE COMPARTMENT IN  
CATEGORY 240 FT<sup>3</sup> (6.8 M<sup>3</sup>)

**IN-FLIGHT PHONE SYSTEM**

- Worldwide coverage
- Up to three handsets (including one cordless)
- New Iridium system (wireless phone handsets)

**VOICE AND CONNECTIVITY**

- Swift Broadband high-speed data
- Up to 432 kbps transfer rate
- Cabin Wi-Fi

WIDE SELECTION OF VENEERS,  
FABRIC AND LEATHER OPTIONS

- Wet areas available with stone flooring

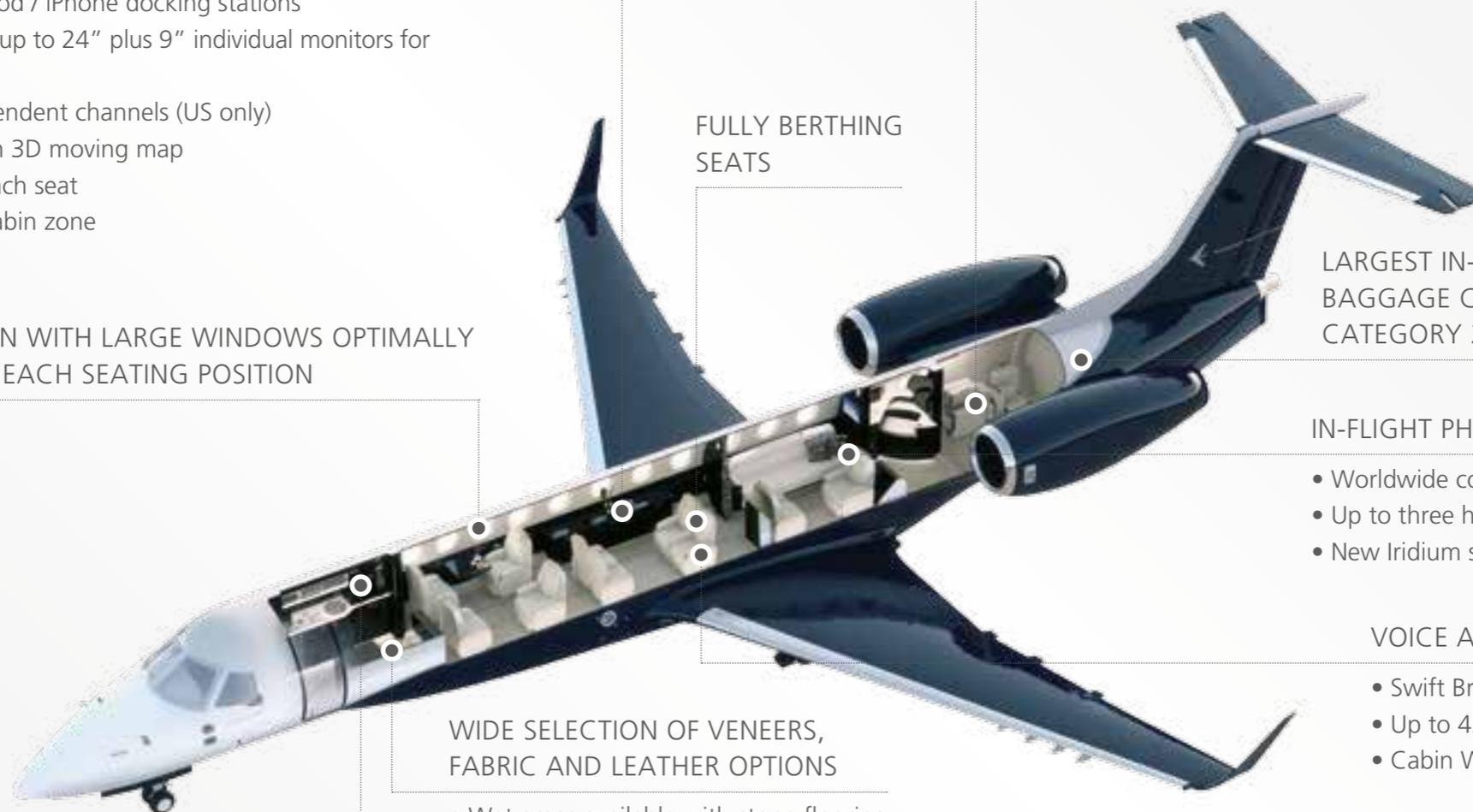
**SPACIOUS AND FULLY EQUIPPED GALLEY**

- Cold and hot water, ice drawer
- Refrigerator or wine chiller
- Coffee brewer or espresso machine
- Convection oven, microwave oven
- Touchscreen monitor for master control of cabin systems
- Spacious enough for long, intercontinental flights



**COMFORT BEYOND YOUR EXPECTATIONS**

- Largest cabin in the large class
- Low cabin noise
- Three spacious cabin zones



#### ENGINES: ROLLS-ROYCE AE 3007A2

- Designed for fuel efficiency, high reliability and maintainability
- Dual-channel FADEC
- Intelligent health monitoring and diagnosis
- 9,020 lbf of maximum thrust per engine
- ISA +15°C flat rating
- On-condition maintenance

#### EXTERNALLY SERVICED LAVATORIES

- Both aft and optional forward lavatory feature external servicing

#### AUXILIARY POWER UNIT (APU)

- Sundstrand APS 500R with reduced noise levels (silencer)

#### ELECTRICAL SYSTEM

- Four primary DC generators (12KVA each)
- One 12 KVA APU (Auxiliary Power Unit) generator
- Two logic controllers provide automatic system control, protection and load shedding, thus reducing pilot workload

#### THRUST REVERSERS

#### ICE PROTECTION

- Integrated bleed air system
- Supplies hot air to engines inlet, wings and horizontal stabilizer leading edge
- Unrestricted operation into icing conditions

#### FUEL SYSTEM

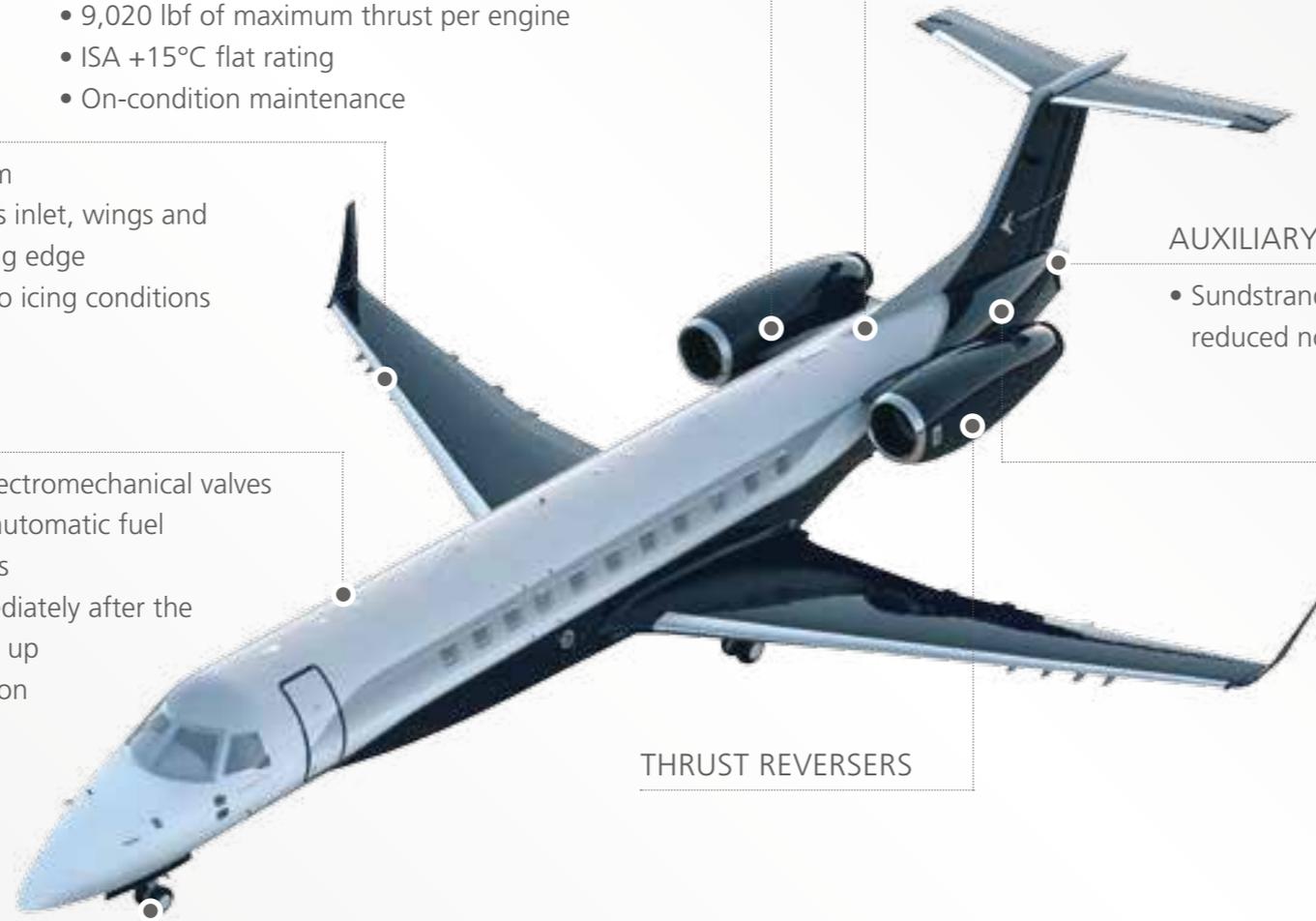
- Automatic control with electromechanical valves
- Simplified refueling with automatic fuel distribution between tanks
- Refueling can begin immediately after the airplane's electrical power up
- Single pre-check fuel button

#### BRAKES

- Brake-by-wire system with anti-skid protection and temperature monitoring

#### PROVEN TECHNOLOGY WITH A MATURE CORE

- Intercontinental range
- Designed for reliability and high utilization
- Over 21 million platform hours
- Excellent hot and high performance
- Steep approach capability





TETERBORO



LONDON



MOSCOW



BEIJING



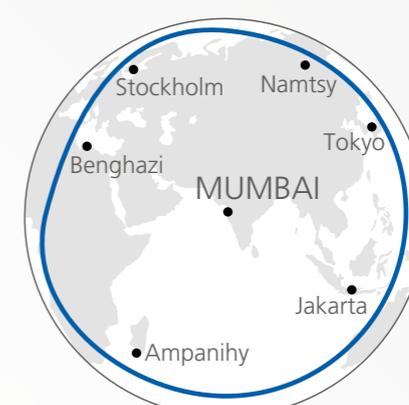
SÃO PAULO



JOHANNESBURG



DUBAI



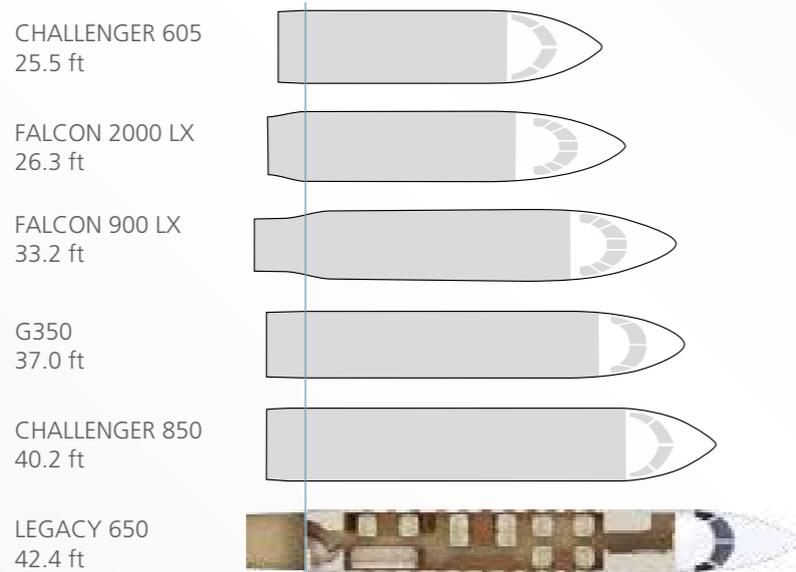
MUMBAI



SINGAPORE

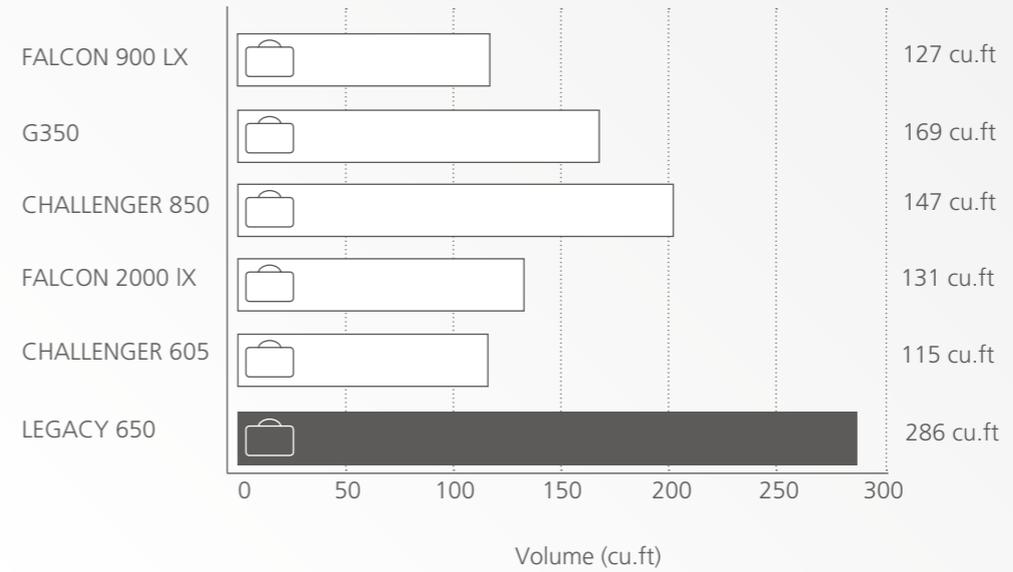
← RANGE

## CABIN LENGTH



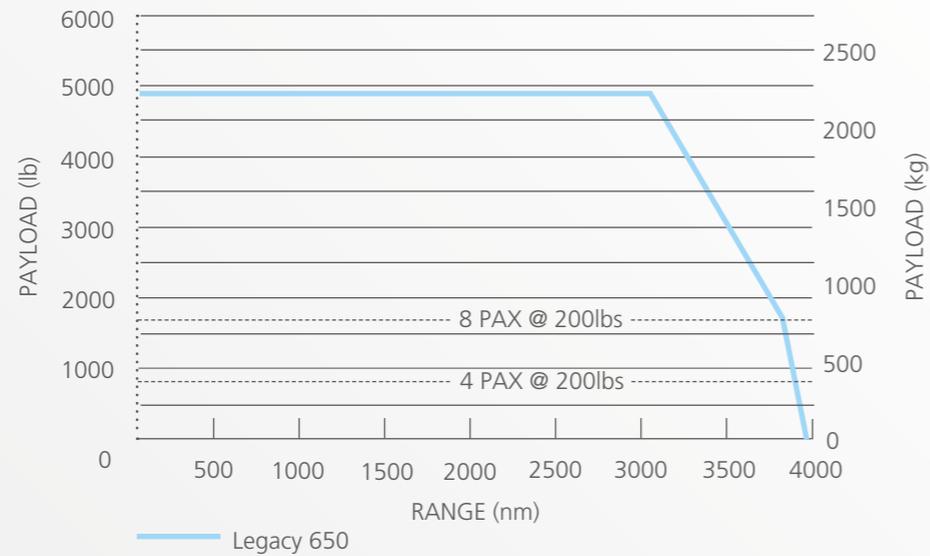
Source: B&CA May 2009

## BAGGAGE VOLUME



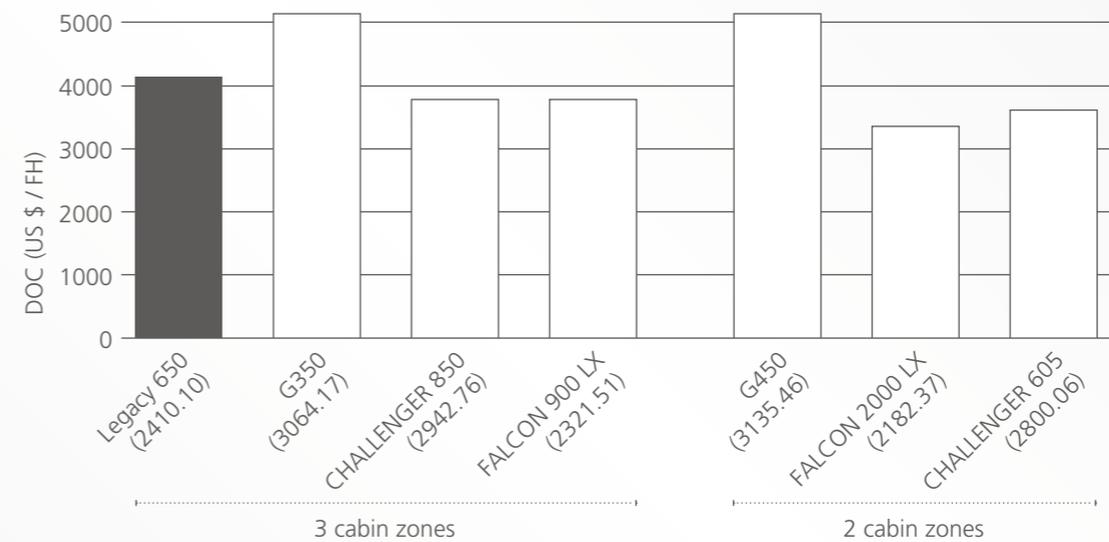
Source: BCA Purchase Planning Handbook 2012/2013

## PAYLOAD VS. RANGE



LRC, NBAA IFR reserves (200 nm alternative, 35 min of holding @ 5,000 ft)

## DIRECT OPERATING COST (DOC)



Source: ARGUS CompAir 2013

← SEE THE DIFFERENCE

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