
LEGACY® 650
BY EMBRAER
EMBRAER
Executive Jets











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 super-midsize category.



REDEFINING THE SUPER-MIDSIZE CATEGORY



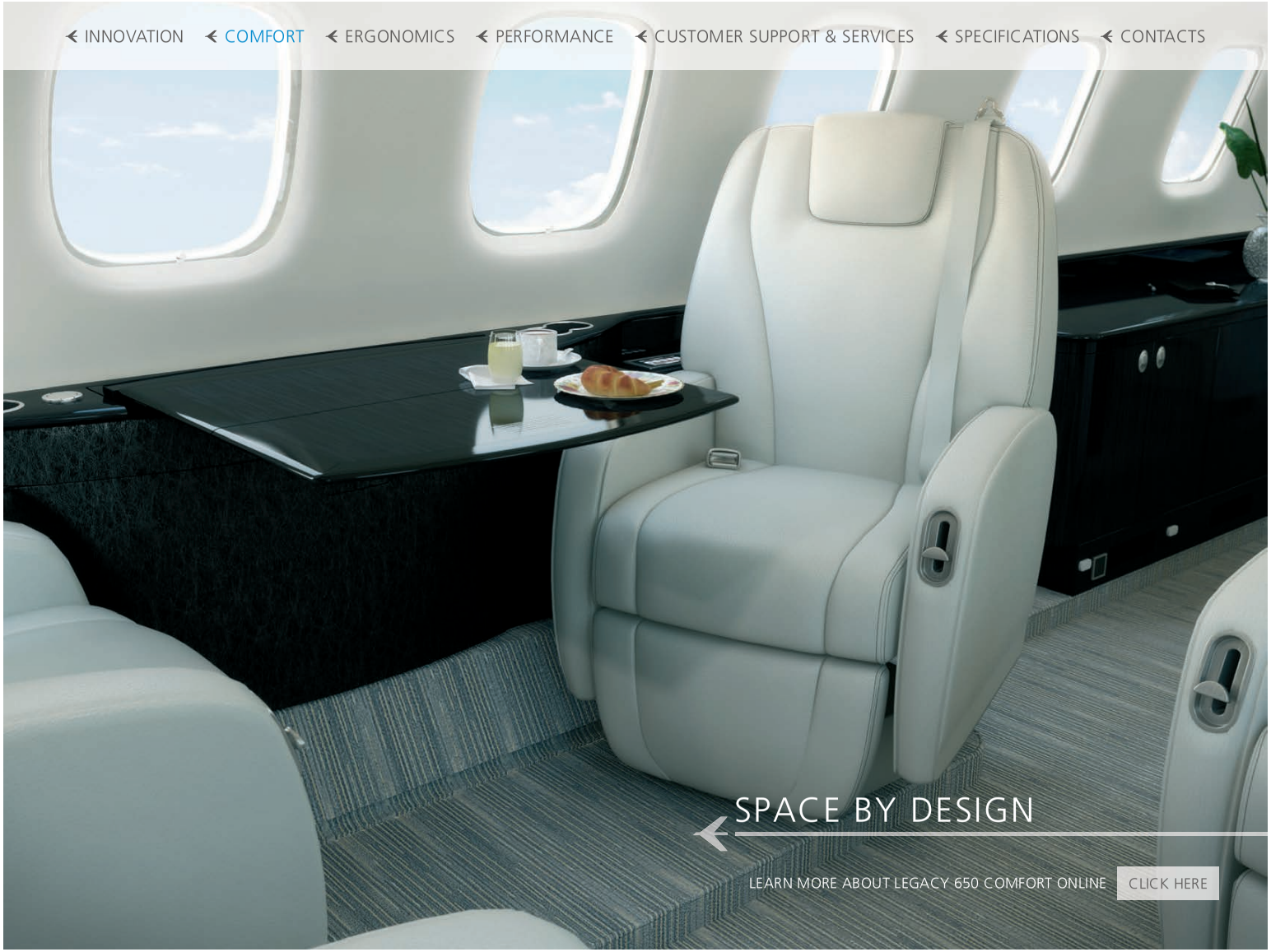
PROVEN PLATFORM

LEARN MORE ABOUT LEGACY 650
TECHNOLOGY ONLINE

CLICK HERE

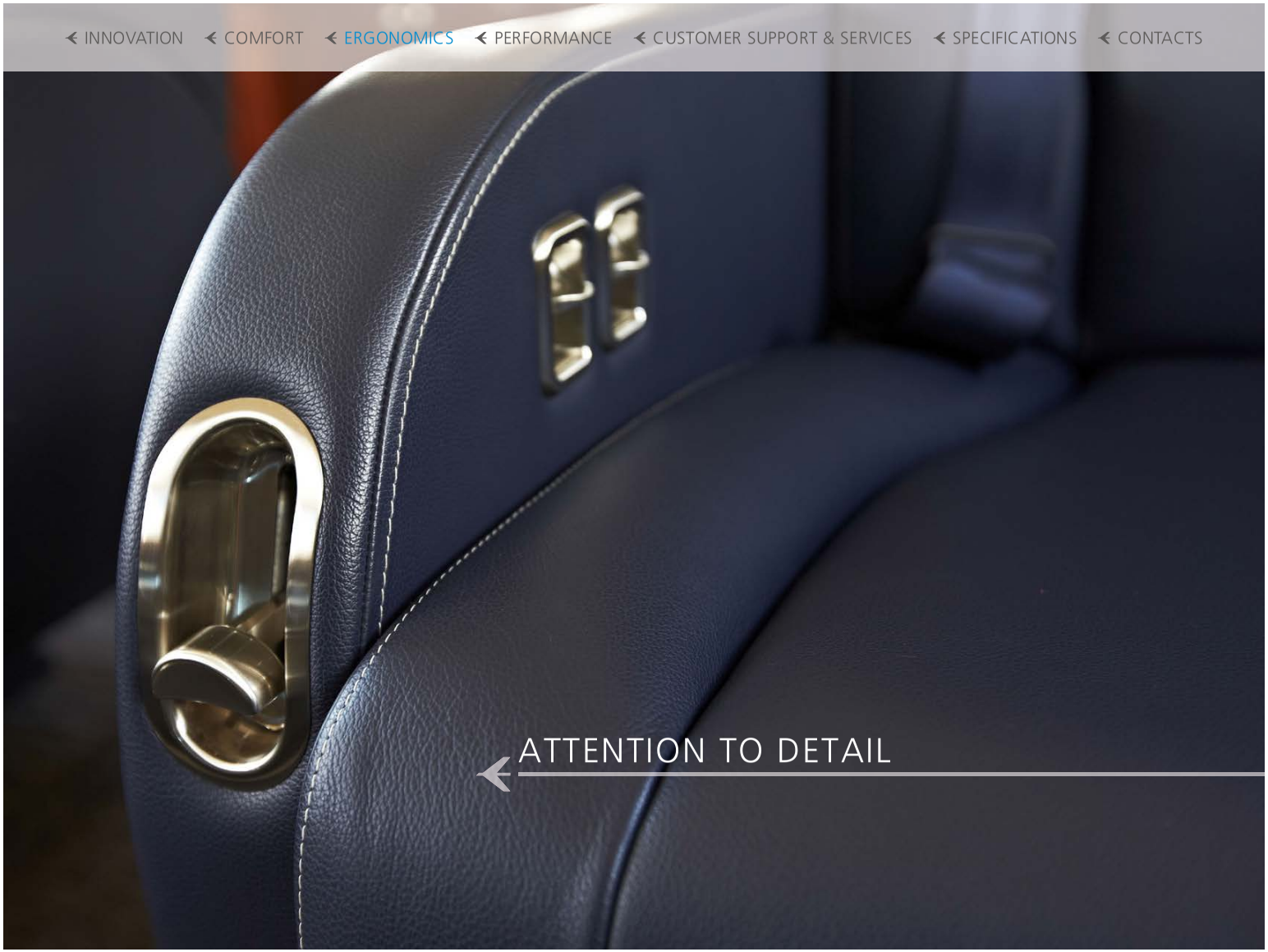
TRAVEL IN ABSOLUTE COMFORT





SPACE BY DESIGN

LEARN MORE ABOUT LEGACY 650 COMFORT ONLINE CLICK HERE



ATTENTION TO DETAIL

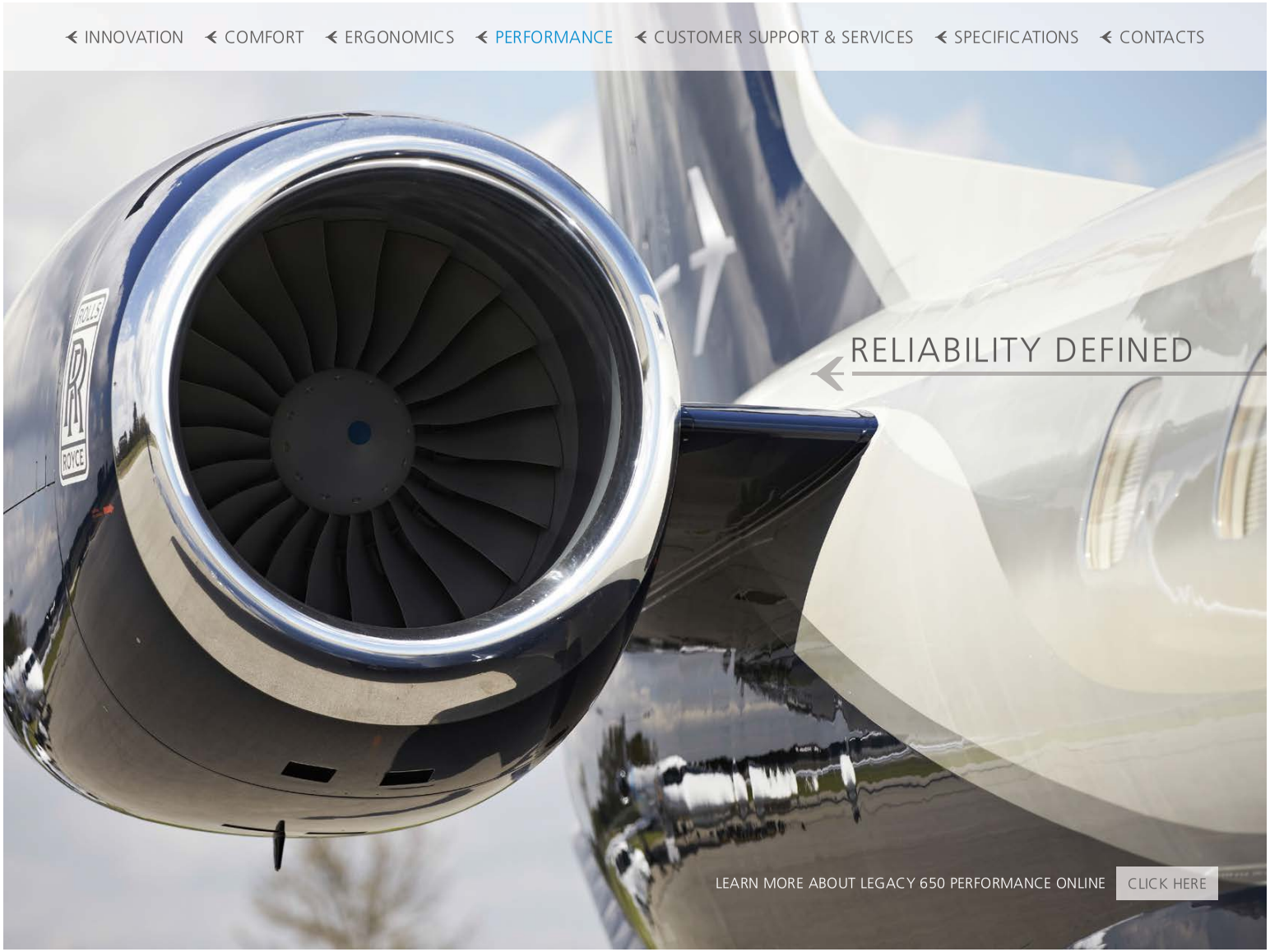
INTUITIVE CONTROL



LEARN MORE ABOUT LEGACY 650 ERGONOMICS ONLINE CLICK HERE

AN OUTSTANDING PERFORMER





RELIABILITY DEFINED

LEARN MORE ABOUT LEGACY 650 PERFORMANCE ONLINE CLICK HERE

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

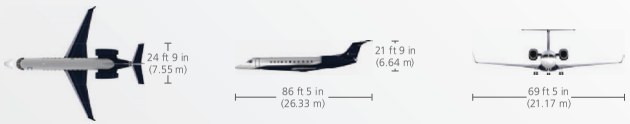
VIEW EMBRAER EXECUTIVE JETS SERVICE CENTER NETWORK ONLINE CLICK HERE

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

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

BRIGHT CABIN WITH LARGE WINDOWS OPTIMALLY PLACED FOR EACH SEATING POSITION

LARGEST IN-FLIGHT ACCESSIBLE BAGGAGE COMPARTMENT IN CATEGORY 240 FT³ (6.8 M³)

IN-FLIGHT PHONE SYSTEM

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

VOICE AND CONNECTIVITY

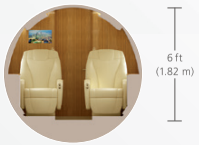
- Swift Broadband high-speed data
- Up to 432 kbps transfer rate
- Cabin Wi-Fi

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 super-midsize class
- Low cabin noise
- Three spacious cabin zones

ENGINES: ROLLS-ROYCE AE 3007A2

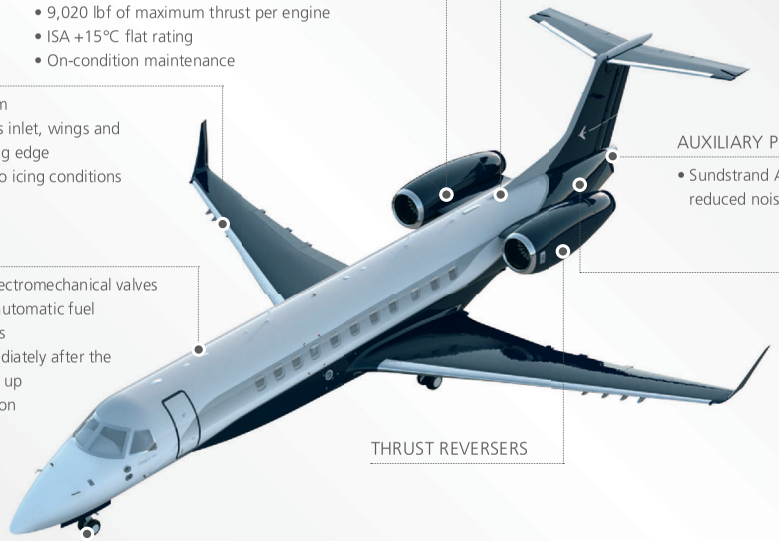
- Designed for fuel efficiency, high reliability and maintainability
- Dual-channel FADEC
- Intelligent health monitoring and diagnosis
- 9,020 lbf of maximum thrust per engine
- ISA +15°C flat rating
- On-condition maintenance

EXTERNALLY SERVICED LAVATORIES

- Both aft and optional forward lavatory feature external servicing

ICE PROTECTION

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



AUXILIARY POWER UNIT (APU)

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

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

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

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



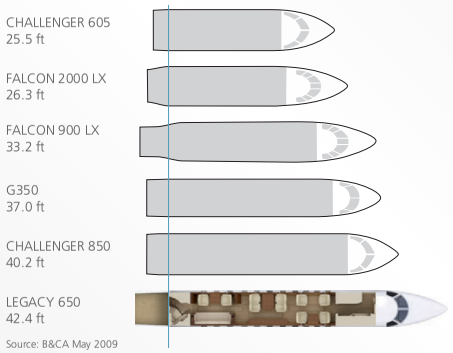
MUMBAI



SINGAPORE

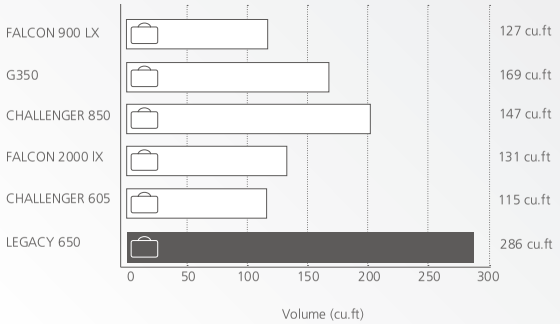
RANGE

CABIN LENGTH



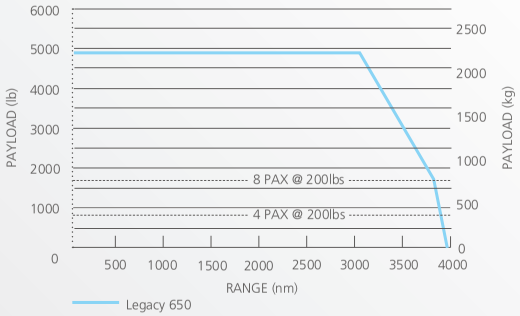
Source: B&CA May 2009

BAGGAGE VOLUME



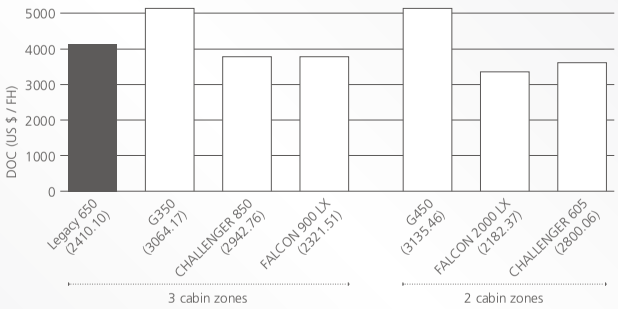
Source: BCA Purchase Planning Handbook 2012/2013

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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