

Rethink Convention.

 **EMBRAER**
Executive Jets



LEGACY 500



THE BEST WAY TO PREDICT THE FUTURE IS TO INVENT IT.

That's the philosophy behind our game-changing Legacy 500 — the first midsize jet with fly-by-wire controls, and a clean-sheet benchmark for the future in performance, passenger room and comfort.

On the flight deck, the advanced Rockwell Collins Pro Line Fusion™ platform puts pilots in complete control in a cockpit environment providing superior ergonomics, uninterrupted viewing of large displays, and reduced workload.

Passengers enjoy the resulting smooth flight in a largest-in-class stand-up cabin (6 ft 10 in wide, 6 ft tall, 26 ft 10 in long) with flat floor, fully equipped galley, state-of-the-art connectivity and inflight entertainment, and elegant-yet-practical seating that converts into fully flat berths. With a low cabin altitude of 6,000 ft, the aircraft seats up to 12 passengers, and large windows capture natural light. At 110 cubic feet, the main baggage compartment is the largest in class and complements a generous inflight-accessible baggage compartment and cabin stowage space.

A product of rethinking convention, the Legacy 500 is the fastest jet in its class, delivering a high-speed cruise of Mach 0.82 and excellent runway performance. In practical terms, it can fly eight US passengers coast to coast at Mach 0.80, even against 99% of annual winds, and still land with NBAA IFR fuel reserves. That's superior real-world performance, available now. No need to wait for the future.

01

*Unique layout flexibility—
best galley in the category*

02

*Six-foot stand-up cabin
with flat floor:
tallest and widest in the class*

03

6,000 ft cabin altitude

04

*Seats turn into
berthable beds*

05

Best baggage volume in class

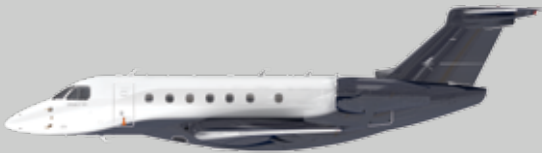
LEGACY 500

SPECIFICATIONS

66 ft 5 in | 20.25 m



68 ft 1 in | 20.74 m



21 ft 2 in | 6.44 m



24 ft 1 in | 7.34 m

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

PERFORMANCE DATA

Range (LRC, 4 pax and NBAA IFR reserves with 200 nm alternate airport)	3,125 nm / 5,788 km
Range (M 0.80, 8 pax, NBAA IFR reserves with 200 nm alternate airport)	2,948 nm / 5,460 km
High Speed Cruise	466 kt / 863 km/h
MMO	M 0.83
Takeoff Distance (MTOW, SL, ISA)	4,084 ft / 1,245 m
Unfactored Landing Distance (LW with 4 pax @ 200 lb each, NBAA IFR reserves, SL, ISA)	2,122 ft / 647 m
Maximum Payload	2,800 lb / 1,270 kg
Maximum Operating Altitude	45,000 ft / 13,716 m
Propulsion	Honeywell HTF7500E
Engine Thrust / Flat Rating	7,036 lbf / ISA + 18°C
Avionics	Rockwell Collins Pro Line Fusion®
Total Baggage and Stowage Volume	155 cu.ft / 4.39 cu.m
Seating Configuration (Crew + Standard Pax / Max Pax)	2 + 8 / 12



US coast-to-coast performance with 85% annual winds



Fly-by-wire flight controls — unique for its class



AVIONICS — ROCKWELL COLLINS PRO LINE FUSION®

FLIGHT DECK

- Full fly-by-wire side-stick control
- Dark and quiet philosophy
- Clean cockpit design with controls optimally placed for efficiency

ROCKWELL COLLINS PRO LINE FUSION®

- State-of-the-art avionics, with superior capabilities and functionalities
- Four 15.1" high-resolution displays
- Synthetic Vision System (SVS)
- VNAV, autothrottle, RNP 0.3, WAAS LPV
- Graphical flight planning
- Charts and maps
- Takeoff / landing data
- Electronic flight operations publications
- MultiScan™ Weather Radar
- Surface Management System
- Onboard central maintenance computer

OPTIONAL E²VS (EMBRAER ENHANCED VISION SYSTEM)

- Combines new compact Head-up Display (HUD) and the latest in Enhanced Video System (EVS) technology
- Improves operational capability down to CAT II minimums
- Compact HUD HGS-3500:
 - Does not require a projector
 - HUD capabilities with a fraction of weight and size
 - Capable of displaying SVS, EVS and future vision technologies
- Enhanced Vision System EVS-3000:
 - Detects all types of runway lighting, including LED
 - Uncooled system, much lighter than previous technologies

Some features are optional. Some features may be available only after Type Certification.





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