

# Honeywell's HTF7500E Completes First Engine To Test

Honeywell International

*Embraer Legacy 450 & Legacy 500 Engine Development Schedule*

*FETT Performance Met Expectations*

PHOENIX, Aug. 11, 2010 -- Honeywell's **(NYSE: HON)** HTF7500E engine, selected to power Embraer's new Legacy 450 and Legacy 500 series aircraft has passed its First Engine To Test (FETT) milestone.

"The engine has delivered full-rated thrust in static and flight testing," said Ron Rich, vice president, Propulsion at Honeywell Aerospace. In the first phase of testing, the HTF7500E has completed nearly 60 hours of testing, including 79 starts and has over 20 hours of flight test time on our Boeing 757 test bed."

"Our test objectives for these early development tests included performance, operability and windmill starting," said Jim Kroeger, director, Propulsion Engineering, Honeywell Aerospace. "We have demonstrated full thrust above 40,000 feet and are now evaluating engine control scheduling."

"We are confident that the HTF7500E engine will deliver the right performance for the Legacy 450 and Legacy 500 aircraft. The FETT is an important achievement on the development of the program to assure the required engine maturity for the aircraft flight test campaign that will begin next year," Humberto Pereira, vice president, Engineering, Embraer Executive Jets.

"The HTF7500E engine features new technology to achieve reduced emissions and improved fuel efficiency while maintaining our design emphasis on reliability and dispatchability. It will be backed by our industry-leading maintenance service plan," Rich said. "Honeywell designed this engine to be community friendly on Embraer's Legacy 450 and Legacy 500 aircraft, producing an acoustic signature well under prevailing regulatory noise limits. The new combustor technology will reduce NOx emissions to a level better than current ICAO levels while still delivering excellent fuel efficiency."

"We are delivering a propulsion system that will incorporate new technologies while building on a proven design that is delivering a benchmarkable level of reliability in this thrust class," Rich said. "With more than 800,000 fleet-hours on the HTF7000 family, the fielded engines are delivering 99.95 percent reliability for our customers."

"The HTF7000 is proving it is truly an on-condition engine," Rich said. "The unique combination of new technology and a demonstrated heritage of rugged reliability,

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make this engine well suited for high utilization operations such as fractional ownership programs and other high time operators.”

HTF7500E has a 34.2-inch fan and a bypass ratio of 4.2. The engine is configured with four axial compressor stages, a single centrifugal compressor, an effusion-cooled combustor, a two-stage high-pressure turbine and a three-stage low-pressure turbine driving a high-efficiency fan. The engine will be offered with an on-condition maintenance program from the first day in service.

Honeywell will provide the HTF7500E to Embraer as an integrated powerplant system (IPPS) including nacelle, thrust reverser and all engine mounted accessories.

Other Honeywell components and systems on the Legacy 450 and Legacy 500 series aircraft include the 36-150 Auxiliary Power Unit, Environmental Control System and electronic fuel controls.

The HTF7500E engine is expected to certify in 2011.

The Legacy 450 and Legacy 500 set new paradigms in their categories. These aircraft will have the largest and quietest cabin in their classes. A flat-floor stand-up (6-foot) cabin, excellent pressurization, and vacuum lavatories are other highlights of the Legacy 450 and Legacy 500, complementing their superior performance and low operating costs. The Legacy 450 is designed to carry up to nine passengers. Its range will be 2,300 nautical miles (4,260 km) with four passengers plus NBAA IFR reserves. The Legacy 500 will carry up to twelve passengers. It is designed for a range of 3,000 nautical miles (5,560 km) with four passengers plus NBAA IFR fuel reserves. Development work on the Legacy 450 and the Legacy 500 is ongoing at Embraer and suppliers' facilities, and the first flight is on schedule to occur in the second half of 2011.

Based in Phoenix, Honeywell's aerospace business is a leading global provider of integrated avionics, engines, systems and service solutions for aircraft manufacturers, airlines, business and general aviation, military, space and airport operations.

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