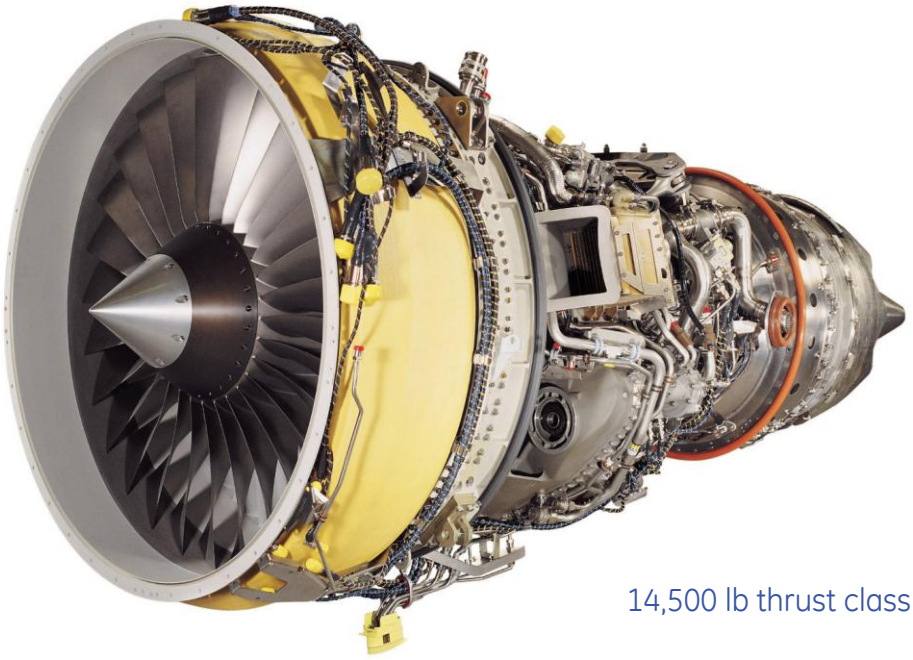
GE Aviation

The CF34-8E is an advanced 14,500 pound thrust class turbofan propulsion system and a member of GE's popular CF34® engine family. It is the system that powers Embraer's 70-90 passenger airliners, the EMBRAER 170/175.

The -8E takes full advantage of its CF34 design and operational experience lineage as well as its relationship with other advanced CF34 models. It incorporates all of the service-proven reliability, environmental and operational characteristics that have earned the CF34 engine family an excellent global reputation with airline and corporate operators for exceptional performance.

The -8E propulsion system incorporates a nacelle design specifically tailored to the EMBRAER 170/175 underwing installation. The new design maximizes LRU accessibility, resulting in enhanced maintainability.

CF34-8E
turbofan propulsion system



14,500 lb thrust class

imagination at work

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CF34-8E turbofan propulsion

Applications

EMBRAER 170

EMBRAER 175

Performance Specifications

Maximum takeoff thrust with APR*	14,500 lb
Bypass ratio	5:1
Maximum overall pressure ratio	28.5:1
Thrust/weight ratio	5.6:1
Fan diameter	46.2 in
Maximum diameter	53 in
Length	121 in
Weight	2,600 lb
Noise	Meets or surpasses ICAO Chap. 4 requirements
Emissions	Meets or surpasses ICAO CAEP/6 requirements
Specific fuel consumption 35K/0.8 Mn max cruise	.68

*Uninstalled. Sea level flat-rated to 86ºF/30ºC.

Milestones

First engine to test	November 2000
First flight	February 2002
FAA engine certification	April 2002
Aircraft certification	February 2004
Entry into service	March 2004

imagination at work

Application photos courtesy of Embraer

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