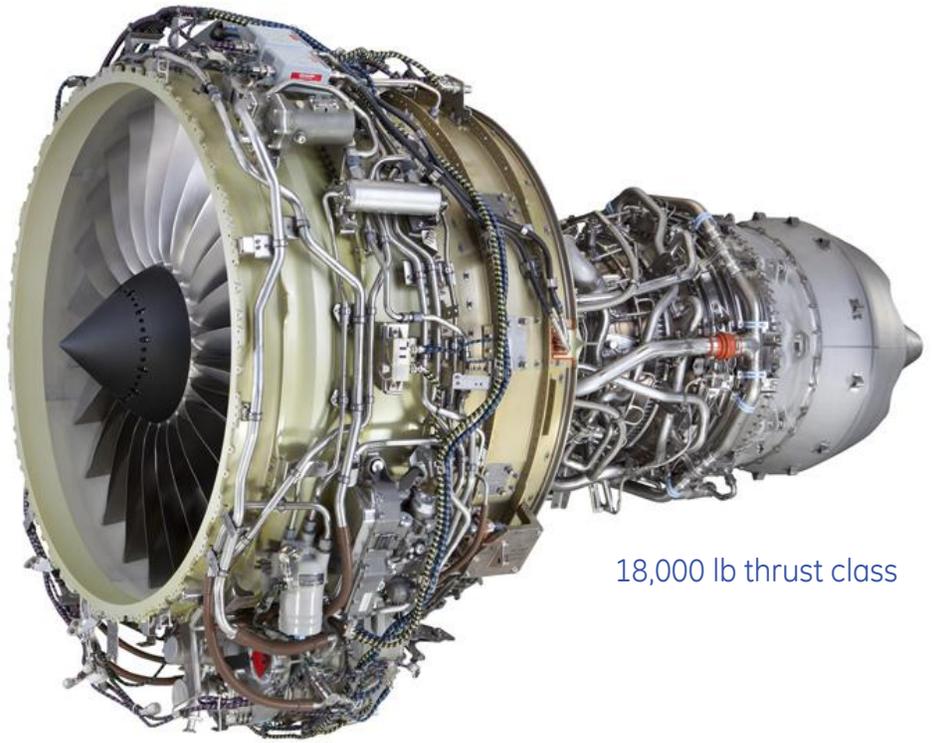


GE Aviation

The **CF34-10A** is an advanced 18,000 pound thrust class turbofan. It is a member of GE's family of highly successful CF34® commercial jet engines and has been selected to power the new COMAC ARJ21 aircraft family. Although the -10A represents a considerable capability increase over the other CF34 engine models, it incorporates the same basic development philosophy and operational features that have earned exceptional market success for the CF34-3 and -8 Series engines: low-risk, proven technology, low operating costs through high reliability, ease of maintenance, excellent fuel

economy and outstanding environmental characteristics. In addition to drawing upon the proven technologies of other CF34 engine models, the CF34-10A also incorporates the very best demonstrated GE and CFMI technologies from other large commercial airliner engines, including the CFM56, CF6® and GE90®. To ensure that the -10A meets the ARJ21's thrust power requirements for greater aircraft payload and range, the CF34-10A will enter into service at 18,000 pounds APR thrust and be capable of achieving higher thrust levels for the future. GE provides the total CF34-10A propulsion system for the ARJ21, including the nacelle/thrust reverser and Engine-Buildup Unit (EBU) components for fuselage mounting.

CF34-10A Turbofan



18,000 lb thrust class



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CF34-10A turbofan propulsion

Applications



COMAC ARJ21



Performance Specifications

Maximum takeoff thrust with APR*	17,640 lb
Bypass ratio	5:1
Maximum overall pressure ratio	29:1
Thrust/weight ratio	5.1:1
Fan diameter	53 in
Maximum diameter	57 in
Length**	90 in
Weight	3,700 lb
Noise	Meets or surpasses ICAO Chap. 3 & 4 requirements
Emissions	Meets or surpasses ICAO '96 & '04 requirements
Specific fuel consumption 35K/.78 Mn max cruise	.65

*Uninstalled. Sea level flat-rated to 86°F/30°C.

**Length does not include centerbody.

Milestones

First engine to test	2006
FAA engine certification	2010
Entry into service	2011



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Application photos courtesy of COMAC
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