



## JT15D Product Overview



Reliable, cost effective, and quiet. Proven qualities have made the JT15D turbofan engine a powerplant of choice for light corporate jet operators around the world. Corporate jets are designed for businesses like yours - ones that are going places. And over the years, JT15D engines have been selected for a number of corporate jet applications by delivering an unsurpassed reputation for high reliability, low fuel consumption, and quiet operation. Fact Sheet.

Rugged and simple in design, with only six major rotating components, the JT15D develops thrust in the 2,200 lbs to 3,350 lbs range. JT15D engines offer you the added benefit of engine commonality across a range of business jet models for ease of maintenance. The recently certified JT15D-5D offers technology improvements such as an abrasion resistant aluminum Kevlar fan case, an integrally bladed fan rotor (IBR) and single crystal HP turbine blades.

## Product Operation

Air enters the engine through the fan. Approximately 70 percent is directed to the annular bypass duct providing most of the engine thrust. The rest is compressed and fed to the combustion chamber where it is mixed with fuel and ignited.

The hot gas expands through the turbine stages; the first drives the compressor, and the accessories; the second, mechanically independent from the first, drives the boost compressor and the fan. Finally, the hot gas is discharged through the exhaust duct.

Source: Pratt and Whitney Canada, [http://www.pwc.ca/en/3\\_0/3\\_0\\_1/3\\_0\\_1\\_1\\_1.asp](http://www.pwc.ca/en/3_0/3_0_1/3_0_1_1_1.asp)