



Pratt & Whitney

A United Technologies Company

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Pratt & Whitney's JT8D and JT8D-200 series

Pratt & Whitney's JT8D and JT8D-200 series engines are the most popular modern commercial engines ever made. More than 14,000 of them have been built, amassing more than half a billion hours of reliable service since 1964.

The JT8D is the workhorse powerplant for the airline industry. More than 350 operators use the JT8D to power more than 4500 aircraft - nearly a third of the world's commercial fleet.

By setting the industry standard for low maintenance cost, the JT8D helps make Boeing 727's, 737-200's, and McDonnell Douglas DC-9's and MD-80's the most economic aircraft to own and operate.

The eight models that make up the JT8D family cover a thrust range from 14,000 to 17,000 pounds. The newer JT8D-200 series offers 18,500 to 21,700 pounds of thrust, and is the exclusive power for the popular MD-80 series aircraft. The JT8D-200 builds on the family's excellent reliability and low maintenance costs while meeting noise and emissions regulations. It entered service in 1980.

Engine Characteristics

Fan tip diameter: 54.0 inches

Length, flange to flange: 168.6 inches

Takeoff thrust: 21,000 pounds of thrust

Flat rated temperature: 84 degrees F

Bypass ratio: 1.74-to-1

Overall pressure ratio: 18.2 to 19.4

Fan pressure ratio: 1.91

Program Milestones

February 1964 - JT8D/Boeing 727 revenue service

December 1965 - JT8D/DC-9 revenue service

February 1968 - JT8D/Boeing 737 revenue service

October 1980 - JT8D-200 revenue service

September 1996 - FAA approval of JT8D-200 re-engined Boeing 727

November 1996 - Commercial Boeing 707 re-engine program begins
July 1999 - Certification begins for 707 re-engineing
December 1999 – Environment Kit (EKIT) certified

Engine Models

JT8D-standard
JT8D-217/219

Airplanes Powered

Boeing 727
Boeing 737-100/-200
McDonnell Douglas DC-9
Boeing MD-80
Super 27 Re-engineing program