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Pratt & Whitney's JT9D Engine Family

Pratt & Whitney's JT9D engine family opened a new era in commercial aviation: the high-bypass ratio engine to power wide-body aircraft. It introduced many advanced technologies in structures, aerodynamics and materials to improve fuel efficiency and reliability.

The JT9D engine family consists of three distinct series. The JT9D-7 engine covers the 46,300- to 50,000-pound-thrust range, and the JT9D-7Q series has a 53,000 pound thrust rating. Later models, the -7R4 series, cover the 48,000- to 56,000-pound-thrust range. These three engine types power 747, 767, A300, A310 and DC-10 aircraft. For JT9D-7R4 twinjet installations, the engines are approved for 180-minute ETOPS (Extended-range Twin-engine Operations).

Pratt & Whitney continues to invest in and support the JT9D engines. Reduced Cost of Ownership Kits for the JT9D engine are available to improve durability, increase thrust and reduce noise.

With Pratt & Whitney's commitment to the JT9D program, these engines will continue to serve commercial aviation well into the 21st century.

Program Milestones	
September 1965	Program launch
December 1966	First engine to test
May 1969	FAA certification
January 1970	Entry into service
September 1982	JT9D-7R4 entry into service

About Pratt & Whitney

Pratt & Whitney, a division of United Technologies Corp. (NYSE:UTX), is a world leader in the design, manufacture and service of aircraft engines, space propulsion systems and industrial gas turbines. United Technologies, based in Hartford, Conn., is a diversified, Fortune 50 company providing high technology products and services to the global aerospace and building industries.

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