



Contact: Media Relations
Tel: 860-565-9600

JT8D Engine Family: The Low-Cost Performer

Pratt & Whitney's JT8D and JT8D-200 series engines are one of the most popular modern commercial engines ever made. More than 14,000 of them have been built, amassing more than 670 million hours of reliable service since 1964.

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.

To ensure the JT8D-200 engine stays current with environmental regulations, Pratt & Whitney has developed a new low-emissions combustion system, or E-Kit, that is FAR 25-certified. The E-Kit reduces JT8D-200 engine NOx emissions by 25 percent, unburned hydrocarbons by 99 percent and smoke by 52 percent. The E-Kit exceeds all ICAO standards for new production engines and qualifies for the Swiss Class 5 (cleanest) emissions category.

Pratt & Whitney and Aviation Fleet Solutions (AFS) jointly developed a noise reduction kit for JT8D-200 powered MD-80 aircraft. This kit is currently being managed by AeroMaximum. The kit enables operators to comply with Chapter 4 noise standards while maintaining thrust and performance levels, and was FAA/EASA certified in 2006. The kit includes an improved fan inlet liner, a 16-lobe mixer, a muffler, and a tabbed nozzle and can be installed on-wing.

Program Milestones	
February 1964	Enters revenue service on Boeing 727
December 1965	Enters revenue service on DC-9
February 1968	Enters revenue service on Boeing 737
October 1980	JT8D-200 enters revenue service on DC-9 Super 80 (later MD-80)
October 1988	JT8D-200 enters revenue service on Valsan re-engined Boeing 727
December 1999	Environmental kit (EKIT) certified

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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