



# Pratt & Whitney

A United Technologies Company

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## **Pratt & Whitney's PW4000 100-inch-fan**

Pratt & Whitney designed and built a larger PW4000, with a fan diameter of 100 inches, specifically for the Airbus A330 wide-bodied twinjet. It was Pratt & Whitney's first high-thrust derivative, based on the successful 94-inch PW4000 model.

The engine is the market leader on the A330, capturing more than half of all engine orders. The model entered service in December 1994 approved for 90-minute ETOPS - the first derivative engine ever to qualify for ETOPS prior to service entry. The engine received 180-minute ETOPS approval in July 1995.

Pratt & Whitney supplies A330 customers the entire propulsion system - engine, nacelle, thrust reverser and accessories. This, along with superb service reliability - as demonstrated by a near-zero in-flight shutdown rate - excellent performance retention and low cost of ownership, make the 100-inch PW4000 an outstanding value.

All 100-inch PW4000 models meet or exceed current and anticipated noise and anticipated environmental requirements. TALON II combustor has the lowest emission in its class.

### **Engine Characteristics**

Fan tip diameter: 100 inches

Length, flange to flange: 163.1 inches

Takeoff thrust: 64,000 - 68,000 pounds of thrust

Flat rated temperature: 86 degrees F

Bypass ratio: 5-to-1

Overall pressure ratio: 32

Fan pressure ratio: 1.75

### **Program Milestones**

December 1991 - Program launch

August 1993 - FFA engine certification

October 1993 - First flight

November 1994 - 90-minute ETOPS approval

December 1994 - Entry into service

July 1995 - 180-minute ETOPS approval

May 2001 – TALON II low emission combustor in service

**Engine Models**

PW4164

PW4168

**Airplanes Powered**

Airbus A330-300

Airbus A330-200