



DEPENDABLE

PW800

PUREPOWER™ TURBOFAN ENGINE FAMILY



Pratt & Whitney Canada

A United Technologies Company

THE PW800 TURBOFAN

PUREPOWER™ TAKES YOU FURTHER

IN BUSINESS AVIATION

THRUST*	
PW800 Series	10,000 - 20,000 lb. class

* Thrusts are approximate values at take-off. Available at sea level, standard day, static conditions, uninstalled.

GAME-CHANGING PERFORMANCE

Impressive improvements in fuel burn, environmental emissions, engine noise and operating costs for new generation intercontinental business jets and airliners. The PurePower™ PW800 embodies the latest advanced technologies to deliver unprecedented customer value.

OVERVIEW

PurePower™ turbofan engines will power long-range business jets, regional airliners and single-aisle aircraft, making them the first engine family to span Pratt & Whitney centres of excellence in Canada and the United States. PurePower™ engines encompass the 10,000 to 20,000 pound thrust class PW800 Series, initially targeting large business jets and the PW1000G Series geared turbofan engines for the next generation airliners.

TECHNOLOGY

High technology engine core with low-emissions TALON™ combustion system

- Exceptional fuel consumption, future thrust-growth capability and improved environmental performance
- Next generation materials, cooling and tip clearance control

Fan

- Advanced shock management design and light weight material for high efficiency and flow

“Green” powerplant system

- Low fuel consumption, low emissions and low noise
- Green manufacturing

FADEC (Full Authority Digital Engine Control) and health monitoring

- Next generation technology integrated total system control
- Exceptional prognostics capability for proactive maintenance and longer time on wing

FEATURES

The new generation PurePower™ PW800 engine family raises the bar on performance and economics by taking advantage of the latest material, aerodynamic and design technologies. The engine incorporates advanced fan, compressor, turbine technologies and the low-emissions TALON™ ‘X’ combustion system for exceptional fuel consumption, future thrust-growth capability and improved environmental performance.



Environmental responsibility is a core value of Pratt & Whitney with its goal to minimize the environmental footprint of the PurePower™ green family of engines throughout the product life cycle, from manufacture through life-time operation and maintenance. TALON™ ‘X’ combustion technology will enable the engine to claim exhaust emissions at even lower levels relative to the current TALON™ technology, well within CAEP 6 and projected CAEP 8 standards. Particular attention has also driven the elimination of environmentally undesirable materials and manufacturing / repair processes. Low noise is also a key virtue of the PW800 powerplant system, well below ICAO Stage IV standards, having carefully optimized the fan diameters and applied extensive acoustic treatment in both the engine and the nacelle.

Operators of the PW800 engines will be supported by P&W's industry-leading global customer support. The network includes over 30 P&W-owned and designated service facilities around the world, more than 100 field support representatives on all major continents, a 24/7 Customer First Centre for rapid expert support, the most advanced diagnostic capabilities and the largest pool of P&W rental and exchange engines in the industry.

LEARN MORE AT WWW.PWC.CA/ENGINES/PW800

