

DEPENDABLE

PW100

GREEN TURBOPROP ENGINE FAMILY



Pratt & Whitney Canada

A United Technologies Company

THE PW100 TURBOPROP

LEADER IN LOW FUEL CONSUMPTION

AND CARBON EMISSIONS

	Thermodynamic Power Class* (Shaft Horsepower)	Mechanical Power Class* (Shaft Horsepower)	Propeller Speed (Maximum)	Height** (Inches)	Width** (Inches)	Length** (Inches)
PW150 Series	6,200	5,000	1,020	44	30	95
PW127 Series	3,200	2,750	1,200	33	26	84
PW124 Series	3,000	2,400	1,200	33	26	84
PW120 Series	2,400	2,100	1,200	31	25	84
PW118 Series	2,180	1,800	1,300	31	25	81

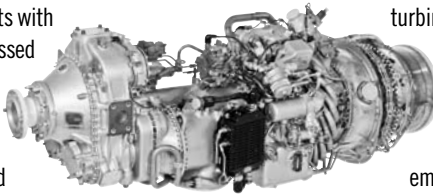
* Powers are approximate values at take-off. Available at sea level, standard day, static conditions, uninstalled. ** Dimensions are approximate values.

NATURAL SOLUTION FOR RISING FUEL COSTS

The PW100 turboprop engine is the proven airline benchmark for low fuel consumption.

OVERVIEW

PW100 powered airline turboprops consume 25 to 40 per cent less fuel and produce up to 50 per cent lower CO₂ emissions than similar-sized regional jets. As a result, many airlines are renewing their fleets with PW100-powered aircraft. PW100 engines offer unsurpassed flexibility and capability for a variety of applications. PW100 engines power aircraft in service with 365 operators in 124 countries. More than 6,000 PW100 engines (PW118 to PW150) have been produced since the family entered service in 1984, accumulating more than 100 million flying hours. PW100 engines have demonstrated their versatility in powering aircraft applications spanning regional airlines, coastal surveillance, fire fighting and cargo transport.



FEATURES

The PW100 is a three-shaft, two-spool engine. Low pressure and high pressure compressors are powered independently by cooled turbines. A third shaft couples the power turbine to the propeller through a reduction gearbox, optimized to establish the best combination of engine and propeller efficiencies. The result is class-leading fuel consumption and low green house emissions. The latest materials, design technologies and advanced engine controls have enabled PW100 engines to regularly achieve more than 10,000 hours on-wing without a shop visit, an impressive dispatch reliability record and provide the pilot and maintenance crew with easy engine operation and maintenance.

PW100 TECHNOLOGY

Off-set reduction gearbox

- Rugged design for high durability with 1,200 rpm output speed for low propeller noise

Two-spool, two-stage centrifugal compressors

- No variable geometry; easy electric start; each stage driven independently by low pressure and high pressure compressor turbines

Single-stage low pressure and high pressure turbines

- Advanced materials and cooling technology for long life

PW150 TECHNOLOGY

Off-set reduction gearbox

- Rugged design for high durability and 1,020 rpm output speed for low propeller noise

Two-spool, four-stage compressor

- No variable geometry; easy electric start; 3-stage axial and single centrifugal compressors, all rotors integrally bladed

Cooled hot section

- New generation combustor and fuel nozzles for low maintenance, low emissions and long life

Operators of PW100 engines are supported by P&WC's industry-leading global customer support. The network includes over 30 P&WC-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&WC rental and exchange engines in the industry.

LEARN MORE AT WWW.PWC.CA/ENGINES/PW100

