Pratt & Whitney Canada
A United Technologies Company

THE PW100 TURBOSHAFT

EXTENDS THE AIRLINE LEGEND

TO NEW-GENERATION HELICOPTERS

	Thermodynamic Power Class* (Shaft Horsepower)	Mechanical Power Class* (Shaft Horsepower)	Output Speed (RPM)	Height** (Inches)	Width** (Inches)	Length** (Inches)
PW127TS Series	3,200	2,500	20,000	32	27	64

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

POWERFUL AND FUEL-EFFICIENT

The PW100 TURBOSHAFT provides a solid foundation in new generation helicopters. Direct derivative of the famous PW100 turboprop family of engines.

OVERVIEW

The PW100 TURBOSHAFT engine family has evolved as the natural extension of our leading PW100 airline turboprop engine family. With a range of 2,000 to over 3,000 shaft horsepower, the PW100 TURBOSHAFT will deliver outstanding reliability, durability and operating economics thoroughly demonstrated in the demanding airline industry. The PW100 TURBOSHAFT leverages 100 million flying hours of experience from the airline world and a diverse range of additional applications spanning coastal surveillance, fire fighting and cargo transport.

FEATURES

The PW100 TURBOSHAFT will leverage the widely acclaimed, low fuel consumption and environmental friendliness of the PW100 turboprop engine. The PW100 is a three-shaft, two-spool engine. Low pressure and high pressure compressors are powered independently by cooled turbine stages. A third shaft couples the power turbine to the helicopter rotor system through a direct drive output shaft. The latest technology materials and engine control features result in a family of engines that will achieve impressive maintenance intervals, high dispatch reliability and provide the pilot and maintenance crew with easy engine operation and maintenance.

TECHNOLOGY

Two-spool, two-stage centrifugal compressors
- No variable geometry; easy electric start; each driven independently by low pressure and high pressure compressor turbines

Reverse flow combustor
- Low emissions, high stability, easy starting and durable

Single-stage low pressure and high pressure turbines
- Advanced materials and cooling technology for long life

Two-stage power turbine
- Free turbine, shrouded blades

Electronic Engine Control (EEC)
- Ease of operation, reduced workload and security of mechanical back-up

Operators of PW100 TURBOSHAFT 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/PW100TS

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DEPENDABLE ENGINES

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