

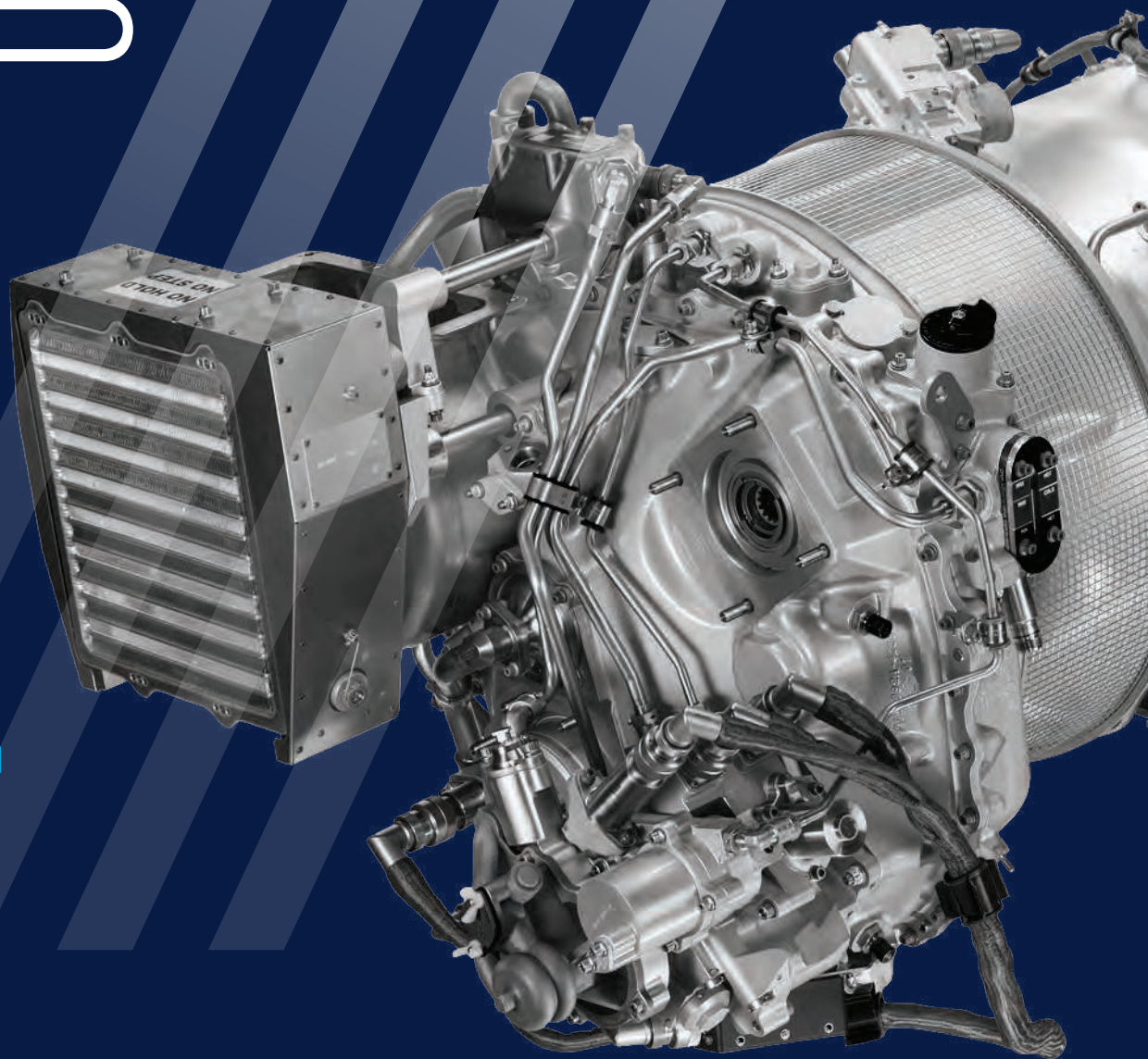


GO BEYOND

TURBOSHAFT

# PW210 ENGINE SERIES

SHAPING A  
NEW GENERATION  
OF HELICOPTERS



	THERMO POWER CLASS* (SHAFT HORSEPOWER)	HEIGHT** (INCHES)	WIDTH** (INCHES)	LENGTH** (INCHES)
PW210 SERIES	1,100	23.5	19.7	43

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

## THE HEART OF AN EXCITING NEW GENERATION OF HELICOPTERS

Game-changing performance is the key to an exciting future for the PW210. Maintaining P&W's reputation for high durability.

### OVERVIEW

Low fuel consumption, light weight, a compact architecture, low environmental emissions, minimum maintenance and low maintenance costs define the PW210. Purposely engineered to deftly handle any challenge, the PW210 is powering a new era of helicopters. The engine was designed with the operator in mind, delivering a wide range of power options for reliability and toughness. PW210 minimizes ownership cost and offers the highest power-to-weight ratio and lowest fuel burn in this market segment. That means payload and range benefits; simply put the PW210 provides the greatest customer value.

### FEATURES

The 1,100 shaft horsepower class PW210 is simple in concept, with only five major rotating components and is designed to facilitate maintenance. A two-stage compressor driven by a single-stage turbine with an advanced technology reverse flow combustor powers a free, two-stage power turbine. The power turbine, in turn, powers the output shaft through a front-mounted reduction gearbox. Combining the reduction and engine accessory gearbox

contributes to the PW210's compact design. The PW210's control system features a dual-channel Full Authority Digital Engine Control (FADEC) delivering a new standard in ease of operation, reduced pilot workload and maintenance diagnostics.

### MAINTENANCE

The PW210 has been designed for low maintenance and maximum availability: 4,000-hour Time Before Overhaul, no scheduled oil change, borescope or vibration checks, and easily accessible and integrated nozzle for compressor wash, which all contribute to maximizing time on-wing, with no compromise in reliability. Engine information can be downloaded from the FADEC and engine memory storage device to P&W standard ground-station software, a powerful tool linked with online interactive publications and the latest diagnostic software tool, Spotlight™, which provides simple, guided troubleshooting through an intuitive interface integrated with P&W's maintenance manuals. The knowledge base learns with each use and field experience is translated into the software, continually reducing downtime and improving first-time successful fix.

## TECHNOLOGY

TWO-STAGE COMPRESSOR	REVERSE FLOW COMBUSTOR	SINGLE-STAGE HIGH PRESSURE TURBINE	TWO-STAGE SHROUDED POWER TURBINE	COMBINED REDUCTION AND ACCESSORY GEARBOX	FULL AUTHORITY DIGITAL ENGINE CONTROL (FADEC)
Compact and efficient, radial inlet with screen for FOD (Foreign Object Damage) protection and no overboard compressor bleed, variable inlet guide vanes	Green engine technology ensures low emissions, high stability, easy starting and durability	Advanced technology and low parts count for long life and low maintenance cost	High efficiency and low vibration	Two-stage, compact drive train with precise electronic torquemeter and integrated oil tank	Dual-channel ease of operation, increased accuracy with fast helicopter rotor governing and intelligent health monitoring and diagnostics

LEARN MORE AT [WWW.PWC.CA/PW210](http://WWW.PWC.CA/PW210)

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