GO BEYOND

TURBOPROP

PT6A ENGINE FAMILY

MORE THAN AN ENGINE

	THERMODYNAMIC POWER CLASS* (ESHP***)	MECHANICAL POWER CLASS* (SHAFT HORSEPOWER)	PROPELLER SPEED (MAX. RPM)	HEIGHT** (INCHES)	WIDTH** (INCHES)	LENGTH** (INCHES)
PT6A "SMALL" (A-11 TO A-140)	660 to 1,080	550 to 870	1,900 to 2,200	21 to 25	21.5	61.5 to 64
PT6A "MEDIUM" (A-41 TO A-62)	1,090 to 1,370	850 to 1,050	1,700 to 2,000	22	19.5	66 to 72
PT6A "LARGE" (A-64 TO A-68)	1,460 to 1,960	700 to 1,700	1,700 to 2,000	22	19.5	69 to 75.5

* Powers are approximate values at takeoff. Available at sea level, standard day, static conditions, uninstalled. ** Dimensions are approximate values.
*** Equivalent Shaft Horsepower: includes estimated equivalent contribution of exhaust thrust.

The PT6A engine is the world's most reliable and innovative general aviation engine that consistently meets or exceeds the expectations of every diverse, evolving application. The versatility and relentless performance of the PT6A makes it the engine of choice for demanding, high-cycle/high-power applications, in single- and twin-engine aircraft for missions and applications of all kinds: Corporate, Skydiving, Agriculture, Utility and Amphibious.

OVERVIEW

The PT6A has benefited from the insights and intelligence we've acquired over many years of experience across all our engine platforms. The result is over 120 reliable enhancements to this trusted engine family. It's also the only engine in the world to be approved for single engine Instrument Flight Rules (IFR) for passenger revenue activity – a result of our relentless focus on achieving the highest single-engine reliability levels.

FEATURES

The flexible engine architecture of the PT6A and modular reverse flow design simplify installation in both single- and twin-engine installations as well as tractor and pusher propeller configurations. Simple, on-wing maintenance is possible for most tasks, where other engines might need a shop visit. Our largest PT6A engines exceed 1,900 thermal shp (gearbox options from 700 to 1,700 shp); with an operating pressure ratio (OPR) of 12:1, high-efficiency gas paths and the latest single-crystal materials and coatings. This means enhanced protection against creep (single crystal blades) and corrosive environments (coating).

TECHNOLOGY

MULTI-STAGE AXIAL AND SINGLE-STAGE CENTRIFUGAL COMPRESSOR	REVERSE-FLOW COMBUSTOR	SINGLE-STAGE COMPRESSOR TURBINE	INDEPENDENT "FREE" POWER TURBINE WITH SHROUDED BLADES	EPICYCLIC SPEED REDUCTION GEARBOX	ELECTRONIC ENGINE CONTROL (EEC) ON MANY PT6A MODELS
Reverse flow, radial inlet with screen for FOD (foreign object damage) protection	Low emissions, high stability and easy starting	Cooled vanes in some models to maintain high durability	Forward-facing output for fast hot section refurbishment	Enables compact installation and output speed is optimized for highest power and low propeller noise	Ease of operation and reduced pilot workload

Operators of PT6A engines are supported by Pratt & Whitney's industry-leading global customer support. The network includes 40 Pratt & Whitney-owned and designated service facilities around the world, more than 100 field support representatives on all major continents, two 24/7 Customer First Centres for rapid expert support, the most advanced diagnostic capabilities and the largest pool of Pratt & Whitney rental and exchange engines in the industry.

Learn more at www.pwc.ca/engines/PT6A

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