



**DEPENDABLE**

# PT6A

**LEADING TURBOPROP ENGINE FAMILY**



**Pratt & Whitney Canada**

A United Technologies Company

# THE PT6A TURBOPROP

# THE WORLD'S MOST POPULAR

## TURBOPROP IN ITS CLASS

	Thermodynamic Power Class* (ESH <sup>***</sup> )	Mechanical Power Class* (Shaft Horsepower)	Propeller Speed (Max. RPM)	Height** (Inches)	Width** (Inches)	Length** (Inches)
<b>PT6A 'Small'</b> (A-11 to A-36)	670 to 950	500 to 750	1,900 to 2,200	21 to 25	21.5	62
<b>PT6A 'Medium'</b> (A-38 to A-45R)	1,090 to 1,318	700 to 1,200	1,700 to 2,000	22	19.5	67 to 72
<b>PT6A 'Large'</b> (A-52 to A-68)	1,218 to 1,845	1,050 to 1,700	1,700 to 2,000	22	19.5	67 to 76

\* Powers are approximate values at take-off. Available at sea level, standard day, static conditions, uninstalled. \*\* Dimensions are approximate values. \*\*\* Equivalent Shaft Horsepower; includes estimated equivalent contribution of exhaust thrust.

## MORE THAN A LEGEND

More than a legend, the PT6A turboprop engine is a powerhouse that offers you unmatched performance, reliability and value in a wide range of applications. From flying into Antarctic darkness at 75 degrees below zero to supporting environmental efforts in reforestation programs, the dependability and versatility of the PT6A family continues to earn the highest respect from pilots worldwide.

### OVERVIEW

Ranging in power from 500 shp to over 2,000 shp, PT6A engines offer unsurpassed flexibility and capability for a variety of applications. The numbers speak for themselves: members of the family currently power aircraft in service with more than 6,500 operators in more than 170 countries. More than 36,000 PT6A engines have been produced since the family entered service in the 1960s, accumulating 300 million flying hours.



### FEATURES

The PT6A family embodies three engine series with increasing power levels, referred to as PT6A 'Small', 'Medium' and 'Large'. The increased power levels are achieved through the increase of compressor air flow and increased number of power turbine stages. Most recent models enjoy the advantage of additional advanced technologies in materials, turbine cooling and aerodynamic design.

### TECHNOLOGY

#### Multi-stage axial and single-stage centrifugal compressor

- Reverse flow, radial inlet with screen for FOD (Foreign Object Damage) protection

#### Reverse flow combustor

- Low emissions, high stability and easy starting

#### Single-stage compressor turbine

- Cooled vanes in some models to maintain high durability

#### Independent 'free' power turbine with shrouded blades

- Forward facing output for fast hot section refurbishment

#### Epicyclic speed reduction gearbox

- Enables compact installation and output speed is optimized for highest power and low propeller noise

#### Electronic Engine Controls (EEC) on many PT6A models

- Ease of operation and reduced pilot workload

Operators of PT6A 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/PT6A](http://WWW.PWC.CA/ENGINES/PT6A)



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