GO BEYOND

THE PT6A-140A ENGINE

PURPOSE-BUILT FOR THE UTILITY MARKET

POWER
900 SHP up to 99˚F/37°C. No other engine in its class compares.

RELIABILITY
We set the benchmark for dependability. It's in our DNA.

EFFICIENCY
20% more power at 9% lower SFC means higher profit margins.

PERFORMANCE
Full-load takeoff in extreme "hot and high" environments increases productivity.

MAINTENANCE
A TBO that is not limited by cycles along with a global service network maximizes engine time on-wing.

WARRANTY
1,000-hour with no calendar limit or an option to extend the warranty to 2,500 hours/ 5 years.

GO BEYOND

	THERMODYNAMIC POWER CLASS (ESPH)	MECHANICAL POWER CLASS (SHP)	PROPELLER SPEED (MAX. RPM)	DIAMETER (INCHES)	LENGTH (INCHES)
PT6A-140A ENGINE	1,161	900	1,900	19	64

RAISING THE BAR

- Sets new benchmarks for power and fuel efficiency with 20% more power at 9% better Specific Fuel Consumption (SFC) - 900 SHP up to 99˚F/37°C – no other engine compares.
- Highly versatile and ideal for demanding applications such as:
  - Cargo – access more airports with short runway performance
  - Amphibious Missions – high takeoff power and corrosion resistance
  - Sky Diving – high power climb with high cycle usage
- Optimized for rugged and demanding conditions with all-aluminum gearbox housings for better corrosion resistance and the best "hot and high" performance in its class.
- Time between overhaul (TBO) and Warranty options tailored for the utility market and commercial applications.
- Fly longer and at reduced operating and maintenance costs:
  - No cycle limitations on TBO
  - TBO extension options up to 8,000 hours
  - Increased cycle limits on some LCF parts
- Exceptionally quiet, 1,900-rpm propeller.

UNMATCHED PERFORMANCE

Purpose-built for the utility market, the PT6A-140A engine is the most powerful and reliable engine in its class and delivers 20% more power at 9% lower Specific Fuel Consumption (SFC). Delivering the best hot and high performance and the highest takeoff and climb power in the utility market, the engine has 900 mechanical SHP and 1,161 thermodynamic ESHP, enabling greater productivity and higher profit margins.

PEACE-OF-MIND MAINTENANCE

The PT6A-140A engine's modular design and externally mounted fuel nozzles make it the easiest engine in the utility market to access and maintain. Simple routine engine inspections can be done while still on-wing, in the field or in the hangar, eliminating surprises, reducing costs, and providing peace of mind. More time on-wing and a predictable and planned maintenance environment means more revenue for your operation.

PROVEN RELIABILITY

Pilots and operators fly the PT6 turboprop engine with confidence. The PT6A-140A engine is part of the next-generation PT6A-140 engine series, which has already logged more than 2 million hours of flight. The PT6 turboprop engine family has more than 435 million hours of flight on more than 135 aircraft applications. The PT6 engine family to have achieved Single Engine IFR status for passenger revenue activity.

Single engine turboprop safety demands a proven engine – the PT6 turboprop continues to be the only engine to achieve Single Engine Instrumental Flight Rules (IFR) status for passenger revenue activity in North America, Europe, Australia, and New Zealand.

ENHANCING THE VALUE OF YOUR INVESTMENT

Ease of maintenance and flexibility for the utility market are inherent to the PT6A-140A engine. Basic time between overhaul (TBO) is 4,000 hours and can be extended to 6,000 hours with the optional FAST solution. Fleet operators can extend their TBO up to 8,000 hours depending on the operation and it is not tied to engine cycles. Built to outlast others in the same class, the PT6A-140A engine has a minimum component life limit over 50 per cent higher than competing engines.

FAST™ SOLUTION AVAILABILITY

Upon enrollment, the diagnostics and prognostics FAST solution, captures, analyzes, and wirelessly sends full-flight data intelligence to you within minutes of the pilot shutting down the engine so you can maximize aircraft availability, optimize maintenance planning, reduce operating costs, and avoid delays and cancellations.

TECHNOLOGY

INNOVATIVE CORE DESIGN

- Advanced aerodynamics and materials.
- 10% increased massflow compressor incorporating the latest Integrally Bladed Rotor (IBR) design.
- Clean sheet design reduction gearbox leveraging the latest design methodologies and advanced coatings.

COMPACT AND POWERFUL

- Highest power-to-weight PT6A engine model in its class.
- 900 SHP takeoff power available up to 99˚F/37˚C.

IMPROVED RELIABILITY AND MAINTENANCE

- New single crystal CT blades for enhanced durability.
- All-aluminum gearbox housings for improved corrosion resistance.

FLEXIBLE

- Expanded thermal rating for improved hot and high performance.
- Easy drop-in replacement for existing small PT6A engine applications.

GREEN ENGINE TECHNOLOGY

- Demonstrated 9% reduction in SFC.
- Use of latest manufacturing processes and green materials.
- Improved emissions combustion system Prist®-free ready.

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