



GE Aerospace

H-Series

Turboprop engine family

The ideal power for turboprop aircraft

H-Series is a family of turboprop engines by Avio Aero - part of GE Aerospace - offering a customized range of ratings and performance for commuters, private and agricultural aircraft as well as aerobatic trainers. From skydiving to medical support and cargo transport, the engine thrives in rugged conditions that require mission readiness, short takeoffs, weight variability and safe operation: in the hottest deserts, over the highest peaks and across the most remote archipelagos, H-Series is renowned for its reliability. Its standard configuration allows a seamless, low-investment integration into a variety of airframe types.

The H-Series is a two-shaft, reverse flow engine with a free turbine. The engine has an axial compressor and compressor turbine featuring 3D geometry design. Fuel is distributed to the chamber via the slinger ring combustor architecture, which simplifies maintenance and eliminates the need for recurrent fuel nozzle inspections. The propulsion section is powered by a single-stage turbine driving a two-stage planetary gearbox.

Electronic Controls

GE's H-Series engine is available with new, first-in-class Electronic Engine and Propeller Control (EEPC). The EEPC system, featuring fully integrated engine and propeller operations, provides safer operations.

An Aerobatic version of H-Series engine, with a unique multi attitude lubrication system designed to enable flight with zero gravity and strengthened structure for demanding aerobatic maneuvers is undergoing final development tests.



Engine features

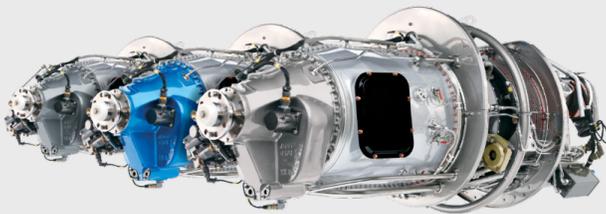
- 21+ million flight hours
- Low maintenance operations
- No hot section inspection and no fuel nozzles required
- Reliable performance in harsh environments
- Optimized aerodesign and features for reduced SFC
- Modern, proven GE Aerospace materials for longer life

Optional services

- Prepaid Maintenance Program available
- Remote diagnostics and special mission accessories including Vibration Monitoring System (for all Aerobatic models)

Specifications (sea level, standard day)

Thermodynamic power (THP)	1040
Propeller speed (RPM)	2080 or 1950
Propeller rotation	CW from rear
Maximum operating envelope <small>(depending on installation)</small>	Up to 32 000 ft
Basic TBO interval	Up to 4000 hours
HSI interval/fuel nozzle inspection	None
Control system	Hydro mechanical fuel control or Electronic Engine and Propeller Control
Fuel	Jet A, Jet A1, SAF
Weight (basic dry mass)	177 kg (390 lb)
Dimensions (l, w, h)	1670 mm (66"), 560 mm (22"), 580 mm (23")

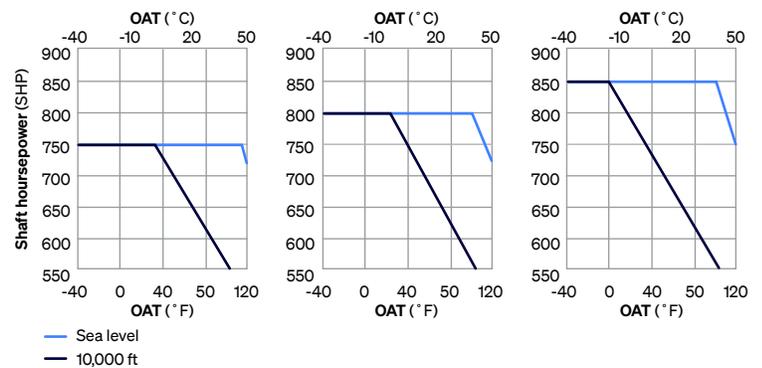


Engine models

H75 550 or 750 SHP

H80 800 SHP

H85 850 SHP



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