

# T56

## Power for the Hercules, Orion, Hawkeye and Greyhound

The T56 military turboprop and its commercial version, the 501-D, are the leading large turboprop engines in the world with over 18,000 engines produced and more than 200 million flying hours accumulated. The engine has been in production since 1954 and operates in nearly 70 countries worldwide. The success of the T56 engine is unrivalled and it is anticipated that operations will continue beyond 2020.

T56 turboprops have been installed on a wide variety of propeller-driven aircraft, including Lockheed Martin's C-130 Hercules tactical transport and P-3 Orion anti-submarine warfare aircraft, and Northrop Grumman's E-2C Hawkeye early warning aircraft and C-2A Greyhound transport. In addition, the Convair 580 and Lockheed Martin L-188 Electra are still in commercial passenger and cargo service around the world.

The current production T56 is the 5,250shp Series IV engine used in the Northrop Grumman E-2C+ Hawkeye. This latest Series IV engine offers 27% more power, 13% less fuel burn, and a significant increase in reliability over Series III engines. Improvements to the T56 are ongoing and various upgrades are available for both military and commercial operators.

Rolls-Royce is currently developing a Full Authority Digital Engine Control (FADEC) and monitoring system for the Series IV engine to reduce pilot workload and improve maintainability for the US Navy E-2C Advanced Hawkeye.

- World's standard choice in the large-turboprop market
- Over 200 million flying hours in military and civil operations
- Operated in nearly 70 countries with over 18,000 engines produced to date
- Significant performance and reliability improvements delivered in Series IV engine

### Engine Specification

Engine	T56-A Series III	T56-A Series IV
Power (shp)	4,591	5,250
Pressure ratio	9.5	11.5
Length (in)	146.3	146.1
Diameter (in)	27	27
Basic weight (lb)	1,920	1,940
Compressor	14HP	14HP
Turbine	4HP	4HP

Applications

Lockheed Martin C-130A-H Hercules, Lockheed Martin P-3 Orion

Northrop Grumman E-2C Hawkeye, Northrop Grumman C-2A Greyhound



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