

AE 2100

Power for the Hercules, Spartan and US-2

The Rolls-Royce AE 2100 turboprop engine features an exceptional combination of power, reliability and efficiency and has been designed to operate under the demanding conditions of off runway or open water takeoff or landings.

Current AE 2100 military customers include the United Kingdom, United States, Australia, Italy, Japan and Denmark. Military applications include the Lockheed Martin C-130J Hercules tactical transport, Alenia C-27J Spartan medium airlifter, the amphibious ShinMaywa US-2 search and rescue aircraft, the SAAB 2000 AEW&C aircraft. More than 850 engines have been delivered and over 3 million flying hours accumulated to date with both military and civil operators.

The AE 2100 turboprop is the first powerplant to use dual Full Authority Digital Engine Control (FADEC) to control both engine and propeller. It shares the same high-pressure core as the AE 3007 turbofan and AE 1107C-Liberty turboshaft engines and benefits from over 80 percent parts commonality resulting in reduced maintenance and life cycle costs. This allows the collective service experience of over 4000 AE engine deliveries and 23 million hours cumulative experience to be carried through all phases of the AE2100 product life cycle.

Due to the identical physical fits and common thrust centrelines and mounts, in-service aircraft currently powered by the Rolls-Royce T56 turboprop engine can be upgraded to the AE 2100, giving operators increased performance, improved reliability and a lower cost of ownership.

- **Developed for military transports, long range maritime patrol and high speed regional aircraft**
- **Certified power range from 3,600shp to 4,700shp**
- **Over 3 million military and civil flying hours accumulated with over 850 engines delivered to date**
- **Considerable growth margin to 6,100shp**
- **Flat rated to 40°C for excellent 'hot and high' performance**

Engine Specification

Engine	AE 2100D2	AE 2100D3	AE 2100J
Power shp (kW)	4,637 (3,458)	4,637 (3,458)	4,591 (3,423)
Pressure ratio	16.6	16.6	16.6
Length in (m)	118 (3)	124 (3.15)	114 (2.9)
Diameter in (m)	28.7 (0.73)	28.7 (0.73)	28.7 (0.73)
Basic weight lb (Kg)	1,727 (783)	1,925 (873)	1,640 (744)
Compressor	14 HP	14 HP	14 HP
Turbine	2HP, 2PT	2HP, 2PT	2HP, 2PT
Applications	Lockheed Martin C-130J Hercules Alenia C-27J Spartan, ShinMaywa US-2		

