



Model 250-B17F turboprop engine

Features

Rugged, reliable and refined

Excellent power-to-weight ratio

Optional Beta valve for propeller reversing

Single and twin engine applications

Aerobatic versions available

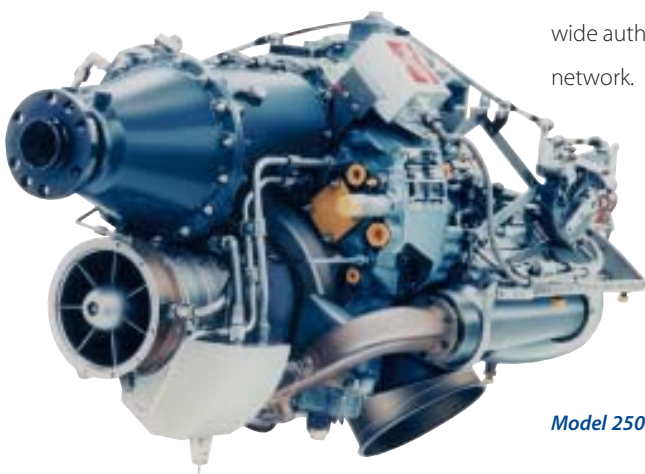
Low direct operating cost

Worldwide authorized repair and overhaul network

Description

The Model 250-B17F turboprop engine series represents the latest refinement of a rugged and highly reliable turboprop application. The B17 series is the turboprop engine of choice for OEM and retrofit in general aviation installations. Current applications include: Britten-Norman BN-2T, Fuji Heavy Industries KM-2D, Vulcanair SF-600, O&N Aircraft Cessna P-210 conversion and Tradewinds Turbines Propjet Bonanza.

First certified as the B15G, this turboprop engine has benefited from the same product improvements as the turboshaft engines. B17F operators also have access to the Rolls-Royce worldwide authorized repair and overhaul network.



Model 250-B17F



Britten-Norman BN-2T



O&N Aircraft P-210 Silver Eagle



Tradewinds Turbines Propjet Bonanza

Fact Sheet

Basic engine specifications

Weight 205 lb
 Power / weight ratio 2.2:1
 Airflow 3.82 lb/sec
 Pressure ratio 7.9:1

Design speeds @ 100% rpm

Power output shaft 2,013 rpm
 Gas producer rotor 50,970 rpm
 Power turbine rotor 33,290 rpm

Fuels MIL-5624, JP-4, JP-5, ASTM-1655, Type A, A1, B
 Oils MIL-L-7808, MIL-L-23699
 Type certificate number E10CE

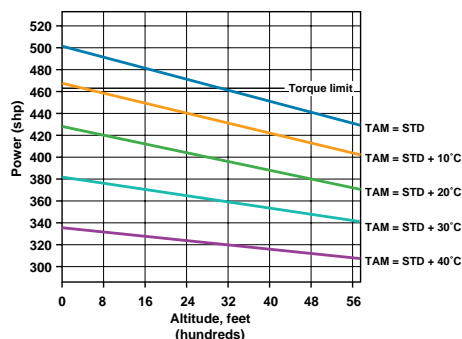
Performance

Model 250-B17F

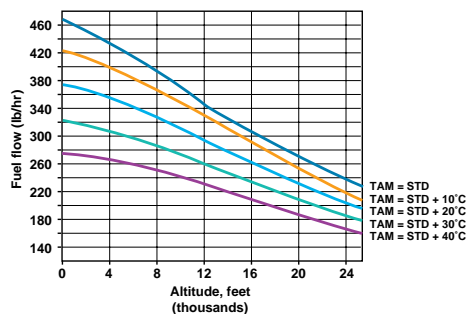
| Sea level static rating | Minimum thermodynamic shaft horsepower | Measured gas temp °C | Sfc lb/shp-hr (max) |
|-------------------------|--|----------------------|---------------------|
| Takeoff* | 450 | 810 | 0.613 |
| Normal cruise | 380 | 752 | 0.635 |
| Cruise A (90%) | 377 | - | 0.637 |
| Cruise B (75%) | 314 | - | 0.673 |
| Flight idle | 35 EST | 440 ±60 | 75 lb/hr |

* Measured gas temperature for takeoff up to 810°C is permitted provided maximum torque limit is not exceeded

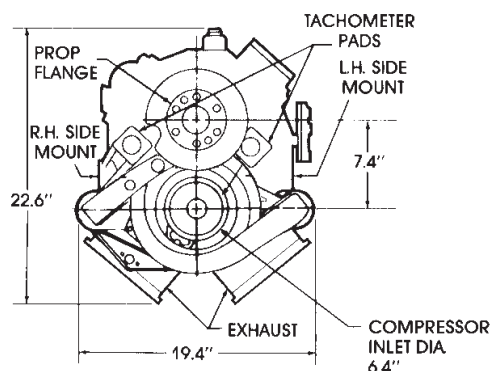
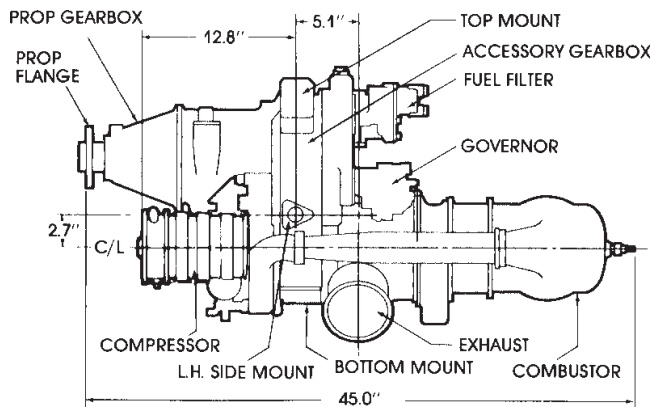
Shaft horsepower at takeoff



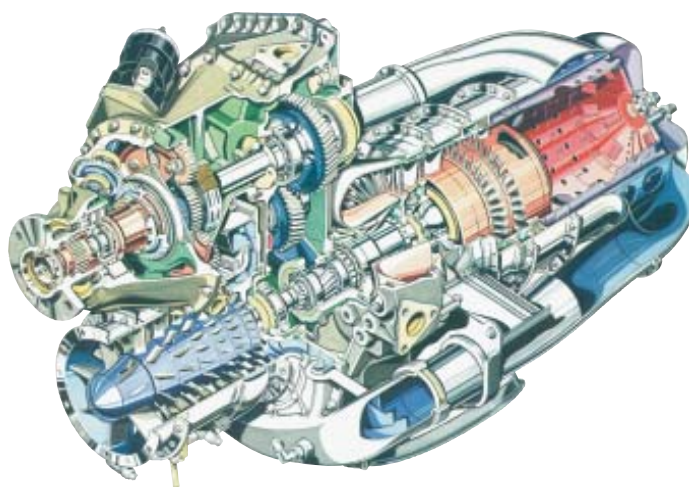
Fuel flow at takeoff



Installation design



Cutaway view



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