



Tesca Jet Engine Gas Turbine 32465 test set up included engine is the compact turbine engine, comprising a single stage radial compressor, combustion chamber and an axial flow turbine.

The engine has been mounted into a sturdy metal frame that holds it firmly. A tough, transparent polycarbonate screen is fitted for safety while the engine is running. Engine Thrust, Temperatures & Air flow rate are measured by high accuracy sensors.

The engine is controlled from software, which provides users with a friendly graphical interface for real time monitoring and operation.

The engine can produce maximum Thrust of 167 N & maximum speed 1,20,000 RPM. The unit is provided with data display and acquisition system with necessary instrumentation. The engine runs on different fuels like Jet A / Jet A1 / Paraffin.

Specifications

- Gas Turbine:
- Axial Flow Gas Turbine
- Max. Thrust 167 N,
- Max. 1,20,000 RPM,
- Idle RPM. 50,000 RPM
- Single stage radial compressor.
- Exhaust Gas Temperature: @ 600 °C
- Fuel: Jet A or Jet A1 or low sulphur paraffin
- Oil: 5% Mobil JetOil, Aeroshell 500/550 and Exxon 2380
- Full instrumentation to measure RPM, Thrust and Temperature and Pressure at each stage of the jet engine.
- Data Acquisition Device: 16 channel Data Acquisition Device, 16 Bit, 250 kS/s, USB Based, Make National Instruments
- LabVIEW based Data Acquisition Software for performance analysis.
- A mounting frame for floor standing operation.

Experiments

- Study operation of Axial Flow Gas Turbine.
- Determination of fuel consumption.
- Air and fuel ratio.
- Recording the turbine characteristic.
- Determination of the specific thrust.
- Determination of the efficiency of the turbine

Note: Specifications are subject to change.

Tesca Technologies Pvt. Ltd.

IT-2013, Ramchandrapura Industrial Area, Sitapura Extension,
Near Bombay Hospital, Vidhani Circle, Jaipur-302022, Rajasthan, India,
Tel: +91-141-2771791 / 2771792; Email: info@tesca.in, tesca.technologies@gmail.com
Website: www.tescaglobal.com