

Product Name :
Two-Shaft Gas Turbine

Product Code :
TK915



Description :

Two-Shaft Gas Turbine

Technical Specification :

A self-contained, fully instrumented, educational two shaft gas turbine. Powered by kerosene, the experimental abilities of this high-quality apparatus enable comprehensive practical investigations into the principles, and performance of two-shaft gas turbines. This product helps students to understand the use of this "engine"™ with a secondary power turbine, on practical applications such as helicopters or electrical power generators. Uses industrial parts, powered by kerosene for realistic tests and results. Fully interlocked starting procedure and automatic shut-down. Automatic Data Acquisition (ADA) included (supplied with software). Direct-coupled (no belts) eddy current dynamometer for accurate loading, speed control and true shaft power measurement. Supplied with "Gas Turbine Theory"™ textbook. Full schematic instrumentation panel diagram shows students what each part does. A steel frame holds a gas generator, power turbine, combustion chamber, oil and fuel tanks, pumps, ancillaries and guards. Above these is an instrumentation and control panel with schematic diagram. The clearly labelled control panel with mimic diagram includes the instrument displays, controls and warning lights. Air passes through a calibrated nozzle and air box, into a compressor, then into the combustion chamber. A pump transfers fuel from the fuel tank to spray through a special nozzle into the combustion chamber. A high-energy spark ignites the air and fuel mixture, that flows to a gas generator turbine.

The combustion chamber gives excellent combustion, low pressure loss and good flame stability over a wide range of conditions.

Electrical supply:

230 VAC, 50 Hz a.c. single-phase 17 A or

220 VAC, 60 Hz a.c. phase-phase 17 A Water supply and drain: 18 liters per minute, assuming a cold water supply at less than 10°C Exhaust duct system: 100 mm diameter heat-resistant material, vented directly to atmosphere

Oil breather vent: 19 mm diameter, direct to atmosphere Room ventilation: Roughly 4000 m³/h assuming standard 20°C room temperature

With full accessories and tanning:

All components and leads is made to protect the safety of the students according to the laws in force.

It provided with manual in English language

Naugralabequipments

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