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Product Name :
Two Shaft Gas Turbine Test Bench

Product Code :
SCHOOL-THM830002



Description :

Two Shaft Gas Turbine Test Bench

Technical Specification :

The 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. 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. A fuel flow control valve on the instrumentation and control panel regulates the turbine speed. This design reduces the possibility of over speed. 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. Specific fuel consumption Pressure losses and ratios Thermal, isentropic and mechanical efficiencies Work and power

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