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Product Name :
Turbojet Trainer

Product Code :
LBNY-0005-1650004



Description :

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 radial flow turbine, then a variable area propelling nozzle. A self-contained, fully instrumented, educational single shaft gas turbine. Powered by kerosene, the experimental abilities of this high-quality apparatus enable comprehensive practical investigations into the principles, and performance of single-shaft gas turbines. Air passes into an air box, into a compressor, then into the combustion chamber. The exhaust gases then discharge to a suitable exhaust system. The combustion chamber gives excellent combustion, low pressure loss and good flame stability over a wide range of conditions. It is a steel frame that holds a gas generator, combustion chamber, oil and fuel tanks, pumps, ancillaries and guards. Above these is an instrumentation and control panel with schematic diagram. The clearly labelled front panel with mimic diagram includes the instrument displays, controls and warning lights. For protection of the equipment and user, it shuts down the turbine if the user makes an error. Digital indicators show shaft speed, pressures, temperatures and fuel flow. Analogue indicators show fuel level, fuel pressure, oil temperature, oil pressure and hours run. A fuel flow control valve on the instrumentation and control panel regulates the speed. This design reduces the possibility of overspeed. The equipment has an oiling system including filters and water-cooled oil. Starting is semi-automatic and fully interlocked, controlled by a start up and shut down logic system.

Technical Specification :

Nett dimensions and weight: 1350 mm x 1700 mm x 750 mm and 260 kg (with no fuel or oil)
Packed dimensions and weight: 3.6 m³ and 450 kg.



Laboratory Instrument India