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Product Name : Turbojet Trainer With Rehe

Product Code : LBNY-0005-1650003



Description :

This product helps students to understand the use of this engine withadditional exhaust nozzle control, on practical applications such as jetaircraft. A steel frame holds a gas generator, combustion chamber, oil and fueltanks, pumps, ancillaries and guards. Above these is an instrumentation and control panel with schematic diagram. A self-contained, fully instrumented, educational singleshaft gas turbine with reheat. Powered by kerosene, the experimental abilities of this high-quality apparatus enable comprehensive practical investigationsinto the principles, and performance of single-shaft gas turbines with reheat. The clearly labelled control panel withmimic diagram includes the instrument displays, controls and warning lights. It then passes through a variable area propelling nozzle. The exhaust gases thendischarge to a suitable exhaust system. The combustion chamber gives excellent combustion, low pressure loss and good flame stability over a wide range of conditions. Air passes into an air box, through a calibrated nozzle into a compressor, theninto the combustion chamber. A pump transfers fuel from the fuel tank to spraythrough a special nozzle into the combustion chamber. A high-energy sparkignites the air and fuel mixture that flows to a radial flow turbine, then to he reheat section. This increases the temperature and velocity of the gas. A second high-energy spark in the reheat section ignites the reheat fuel. This creates asecondary burn using some of the remaining oxygen in the hot exhaust gasesleaving the turbine. A fuel flow control valve on the instrumentation and control panelregulates the turbine speed. This design reduces the possibility of over speed. A separate control adjusts the fuel flow to the reheat section.

Technical Specification :

Nett dimensions andweight: 1385 mm (wide) x 1200 mm (depth) x 1721 mm (height) and 260kg Packed dimensions and weight: 3.8 m3 and 450 kg.

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