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Product Name :

Two Shaft Gas Turbine

Product Code :

SLE/EE/05



Science Lab
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Description :

The Two Shaft Gas Turbine is a self-contained, fully instrumented trainer in which the gas generator and a separate power turbine turn on their own shafts. Students can see how a free power turbine takes useful work from the hot gas. Everything sits on a steel frame and is run from a labelled control panel with a mimic diagram.

Two shaft gas turbine specifications

Parameter	Detail
Type	Self-contained, fully instrumented educational two-shaft gas turbine
Frame	Steel frame holding the gas generator, power turbine, combustion chamber, oil and fuel tanks, pumps, ancillaries and guards
Air path	Calibrated nozzle and air box, then compressor, then combustion chamber
Fuel system	Pump transfers fuel from the tank to spray through a special nozzle into the combustion chamber
Ignition	High-energy spark ignites the air and fuel mixture, which flows on to the gas generator turbine
Combustion chamber	Designed for good combustion, low pressure loss and good flame stability over varied operating conditions
Speed control	Fuel flow control valve on the instrumentation and control panel; design reduces the possibility of overspeed
Control panel	Clearly labelled, with schematic mimic diagram, instrument displays, controls and warning lights
Product code	SLE/EE/05
Minimum order	10 units
Dispatch	Usually within 7 to 10 working days
Manufacturer	ScienceLab (Jain Scientific Equipments Pvt Ltd), Ambala, India

Gas turbine cycle tests on the two shaft trainer

Start-up and shutdown drill. With the guards in place and the oil and fuel tanks checked, students follow the start-up order shown on the mimic panel, calling out each step and each warning light before the instructor moves on. The shutdown sequence is practised the same way, so every student can run the trainer safely before any readings are taken.

Fuel flow against speed. Open the fuel flow control valve in small steps and let the turbine settle at each setting. Record the panel readings at every step, then plot spee wer turbi

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