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**ADF Science**



# **AJT-100A Gas Turbine Mini Jet Engine Training Set**

## **Description**

Gas Turbine Mini Jet Engine Training Set is used to analyze working principles of computer-controlled gas turbine engine and fluid mechanics.

Training set examines specific thrust, fuel consumption and air/fuel ratio of gas turbine jet engine and open cyclic operating principles. It comprises of single shaft gas turbine, fuel system, starter, ignition system, measurement and control equipment.

Single shaft gas turbine includes radial compressor, axial gas turbine, circular combustion chamber and nozzle.

## **Features**

### **General Features**

- Movable Platform
- Starter Engine
- Ignition Plug
- Fuel Tank
- Fuel Pump
- Fuel Filter
- Fuel Valve

### **Indicator LCD**

- RPM Gauge
- P2, P3, T1, T2, T3, T5 Gauges
- Thrust Gauge
- Fuel Flow Gauge
- Caution Panel

### **Sensors**

- Thrust Sensor (0-500 Newton)



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- P2 Pressure Sensor
- P3 Pressure Sensor
- T1 Temp.Sensor
- T2 Temp Sensor
- T3 Temp Sensor
- T5 Temp Sensor
- Fuel Flow Sensor
- **Gas Turbine Engine**
- Max RPM : 125.000
- Idle RPM : 33.000
- Fuel Consumption : 35 – 50 L/h
- EGT : 0 – 700°C
- **Control Panel**
- jMaster Switch
- Master Lamp
- Trim Switch
- Engine Start Switch
- Automatic Stop Switch
- Emergency Stop Switch
- Beacon Switch
- Computer ON/OFF

## Specifications

- Delivered fully assembled, tested and ready to operate.
- AC power 220/110 Volt required.
- Dimensions(L x W x H): 150 x 120 x 180cm
- User's manual
- Students' study guide
- CBT ( Computer Base Training )
- Wiring diagrams
- Flow schematics
- Components diagrams
- Instructors' training resources