

### GENERAL EXPLANATION

The gas turbine has been developed to study dual-spindle and jet engine behavior. The main units of the training set are the gas generator and the free-running power turbine. The generator consists of radial compressor, combustion chamber and radial turbine. The compressor and the turbine are connected to the same shaft.

### EXPERIMENTS

1. Gas turbine operation experiment
2. Calculation of turbine inlet power
3. Finding turbine thermal efficiency experiment
4. Turbine input power and number of revolutions experiment
5. Turbine thermal efficiency and rotational speed relationship experiment
6. Turbine electrical output power and number of revolutions experiment

### DIMENSIONS

A x B x H : 1400 x 800 x 1600 mm

### OPTIONAL FEATURES

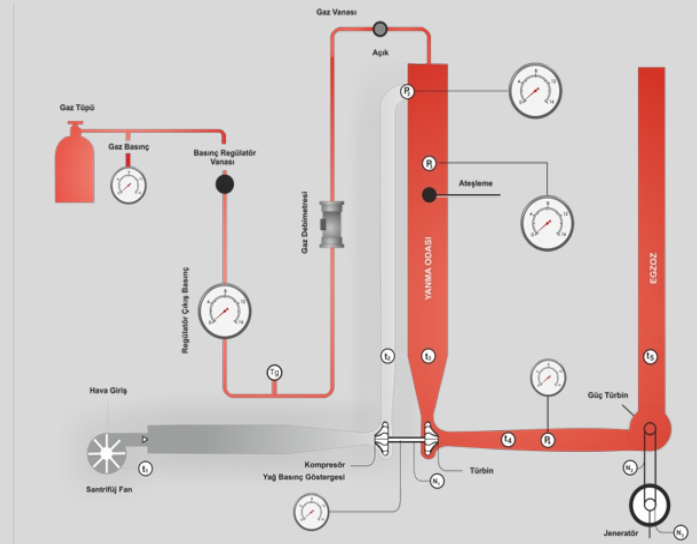
- Touch LCD Display
- USB Computer Connection
- Computer Control

### PACKAGE INCLUDED

Device, device cover, 1 printed experiment report, circuit diagram and product catalog

### TECHNICAL SPECIFICATION

The device works according to the principles of jet motor consists compressor, combustion chamber and radial turbine. The air taken from the compressor enters the combustion chamber in a compressed state and an air-fuel mixture is formed in the combustion chamber. The thrust force is obtained by passing the torch to the radial turbine of the flaming air fuel mixture.



### TECHNICAL DETAILS

- Radial fan
- Propane tube and propane regulator
- Oil circulation pump
- Oil tank
- Temperature measurement from 5 different points
- Pressure measurement from 4 different points
- Plate heat exchanger
- Digital measurement of electrical data