Phone: +91-9896600003

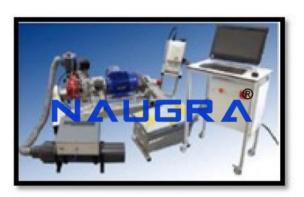
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#### **Product Name:**

Gasoline Engine Test Bench For Advanced Training

**Product Code:** 

TK848



## **Description:**

Gasoline Engine Test Bench For Advanced Training

## **Technical Specification:**

Gasoline Engine Test Bench â€" For Advanced Training

The system is designed for the study and the understanding of the four-stroke gasoline combustion engine. It is possible to perform the necessary tests to obtain the engine characteristic data referred to the performance of the engine. Experiments can be performed manually or automatically by students who have to just indicate the required variables and the number of points for the realization of the graph.

Motor - Characteristic of the curves:

Torque - Rotational speed.

Brake horsepower - Rotational speed.

Temperature - Rotational speed.

Air/fuel ratio - Rotational speed.

Specific fuel consumption - Rotational speed.

### Main Characteristics:

The test bench is supplied in two parts:

A four-stroke gasoline engine

A Braking system (a three-phase asynchronous motor which can work as motor and generator, controlled by an inverter). The engine test bench is supplied with a complete computer system, in order to carry out several practical experiments. All the characteristics of the curves can be monitored and recorded.

Technical data - Motor bench

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Framework made of aluminum.

Wheels for easy displacement.

Bench legs equipped with cushioning system to avoid vibrations.

Technical data - Digital sensors

Load cell for mechanical torque measurement.

Thermocouple for exhaust gas temperature measurement.

Electronic speed tachometer.

Pattern flow-meter for air consumption.

Digital scale 3500gr x 0.01gr to calculate the fuel consumption.

Technical data - engines

Combustion engine

4 stroke combustion engine

Motor speed: 3600rpm Power: 4.0kw at 3600rpm Torque: 10.8nm at 2500rpm

Overhead valves
Displacement: 163cc

Cooling system: forced ventilation system

Weight: 15kg Electric motor

Type: Asynchronous three phase motor

Power: 7500W Voltage: 380V

Motor speed: 2880 rpm at 50Hz

Additional Features:

Fuel tank: 3l

Brake resistance: 21 Ohms

General Characteristics: Two training benches

Weight 300 kg

Input power supply: A.C. 3-phase 400V  $\hat{A}\pm$  10% 50Hz Operating functioning temperature: -40 $\hat{a}$ , f to +50 $\hat{a}$ , f.

# **Naugralabequipments**

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