

**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 – 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

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  $\pm$  10% 50Hz  
Operating functioning temperature: -40? to +50?.

## Naugralabequipments

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