

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 $\hat{\pm}$ 10% 50Hz
Operating functioning temperature: -40 \hat{a} ,,f to +50 \hat{a} ,,f.

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