

Product Name :
Diesel Engine Test Bench For Advanced Training

Product Code :
TK995



Description :

Diesel Engine Test Bench For Advanced Training

Technical Specification :

Diesel Engine Test Bench " For Advanced Training

The system is designed for the study and the understanding of the four-stroke single-cylinder diesel combustion engine. It is possible to perform the necessary tests to obtain the engine characteristic data referred to the performance of the engine. 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.

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 diesel 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.
Flow meter for air consumption.
Flow meter for fuel consumption.

Technical data - Four-stroke single-cylinder diesel combustion engine
Motor speed: 3600rpm
Power: 3.5kw at 3600rpm
Torque: 10.5nm at 2000rpm
Displacement: 243cc
Stroke: 65mm
Compression ratio: 22:1
Weight: 28kg

Electric motor:
Type: Asynchronous three phase motor
Power: 7500W
Voltage: 380V
Motor speed: 2880 rpm at 50Hz

General Characteristics:
Two training benches
Weight: 300 kg
Input power supply: A.C 3-phase 400V $\hat{\pm}$ 10% 50Hz
Operating functioning temperature: -40 $\hat{\circ}$,f to +50 $\hat{\circ}$,f

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