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Product Name : Single Cylinder Two Stroke Petrol Engines Test Bench Product Code : THEM0014



Description :

Single Cylinder Two Stroke Petrol Engines Test Bench

Technical Specification :

The engine is mounted on a vibration-insulated base plate and connected to the asynchronous motor. The mass of the base plate in conjunction with the soft bearing support ensures that the test stand runs very smoothly.

The asynchronous motor is initially used to start the engine.

As soon as the engine is running, the asynchronous motor and energy recovery unit act as a brake unit for applying a load to the engine.

The braking power is fed back into the electrical system.

In passive mode of the engine the asynchronous motor is also used to determine the frictional power of the engine.

The lower section of the mobile frame contains fuel tanks and a stabilization tank for the intake air.

The air consumption is measured by way of a measuring nozzle.

The fuel consumption is measured by way of the level in a vertical pipe.

The switch cabinet contains digital displays for the speed, torque and temperatures.

Pressure gauges indicate negative intake pressure and air consumption.

The measured values are transmitted directly to a PC via USB.

The data acquisition software is included.

FEATURES:

Control and load unit for single-cylinder internal combustion engines up to, 3 kW.

Asynchronous motor used as load unit, also as starter motor.

Determination of specific fuel consumption.

Determination of volumetric efficiency and lambda (fuel-air ratio). Determination of the frictional power of the engine (in passive mode). Vibration-insulated base plate for engine mounting. Plotting of torque and power curves. Stabilisation tank for intake air. Measurement and display of torque, air temperature, air intake quantity, negative intake pressure, speed, fuel consumption, fuel temperature. Measured value displays for engine: exhaust gas temperature and cooling water temperatures. SPECIFICATION: 230V, 60Hz, 1 phases Asynchronous motor as brake Power output: approx. 3 kW at 2900min-1 Measuring ranges : Torque: -50...50Nm Temperature: 0...900°C Speed: 0...5000min-1 Fuel consumption: 50cm3/min Engine intake pressure: -400...0mbar Air consumption: 0...690L/h

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