

Product Name :
Hybrid System

Product Code :
TK107



Description :

Hybrid System

Technical Specification :

This simulation panel allows the study, experimentation and troubleshooting relative to the devices developed for hybrid power (petrol - electrical energy) of the modern vehicles.

It shows all the operating characteristics of a hybrid system that uses a parallel coupling between an internal combustion unit and a three-phase electric motor. Moreover, it covers the following topics:

The hybrid automobile: principles of operation

The operating modes of the parallel coupling in hybrid systems

Analysis of the operating variables

Analysis of malfunctions and troubleshooting

Main Characteristics:

The subsystems, that form the hybrid solution and that are analyzed by means of the simulator and shown on the panel, are the following:

Gasoline Unit

Electric Unit

Continuously Variable Transmission (CVT)

Dual-Scroll Hybrid A/C Compressor

Intelligent Power Unit

This vertical frame bench-top trainer is specially designed to show to students how automotive systems work.

The simulator consists of a panel operated by the support of a computer with a colored silk-screen diagram that clearly shows the structure of the system and allows the location of the components on it. The display of the

information available on the computer screen allows the continuous control of the educational system. The operational conditions can be entered by the students and the insertion of faults can be carried out through the computer by the teacher. The trainer is supplied with a CAI Software and the supported documentation guides the students to the study and the performance of the simulation exercises.

General Characteristics:

Dim. mm (Height x Length x Width): 700x1000x150 - (470 with the base)

Weight kg 25

Input power supply: AC 220V $\pm$ 10% 50 Hz

Working temperature: -40 $^{\circ}$ C $\sim$ +50 $^{\circ}$ C.

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