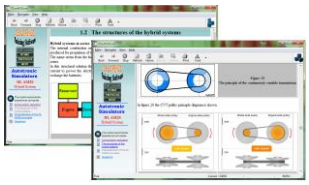
AUTOTRONICS

HYBRID SYSTEM



DL AM20

LEARNING EXPERIENCE

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

GENERAL CHARACTERISTICS

- Dim. mm approx (HxLxW) : 700x1000x150 - (470 with the base)
- Weight approx. kg 25
- Input power supply: AC 220V±10% 50 Hz
- Working temperature: -40°C ~ +50°C.

MAIN CHARACTERISTICS

The subsystems, that form the hybrid solution and that are analysed 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 coloured 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.

All components installed and given leads are made to protect the safety of the students.

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