



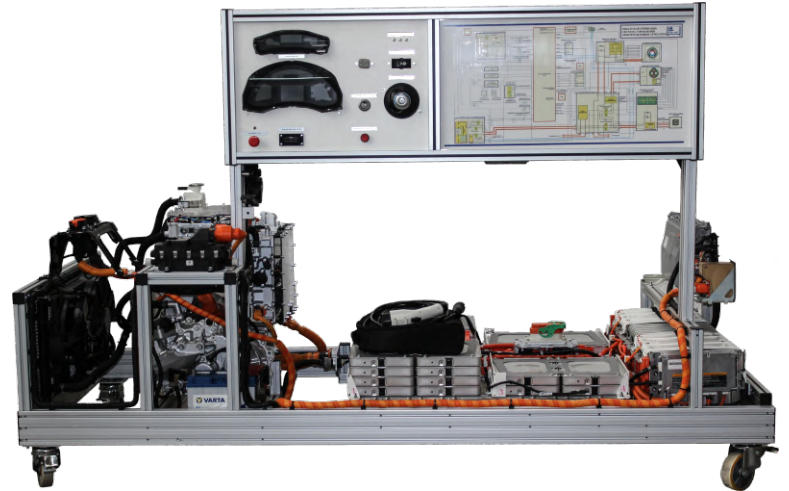
ELECTRIC VEHICLE EDUCATIONAL TRAINER

L3

Product number
MSEV02

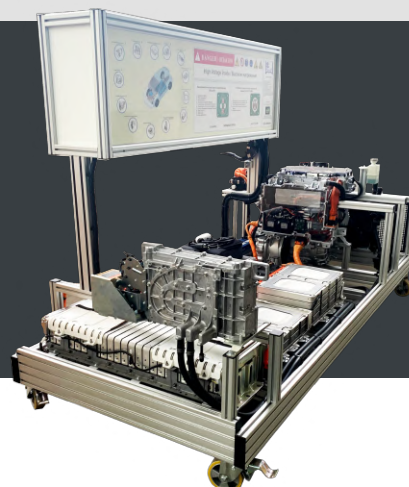


The electric vehicle training stand, based on the Nissan Leaf, provides hands-on training with real EV components, including the electric motor, inverter, high-voltage battery, and charging port. All systems are connected using original high-voltage "orange" cables and secured with protective plexiglass for safety. The stand simplifies EV maintenance and repair training by exposing key components without a car body, allowing clear demonstration of connections, cables, battery and high-voltage systems. It's ideal for teaching EV safety, maintenance, diagnostics, and repair, offering easy access to observe and explain how the electric motor, inverter, and battery pack interact.



Features

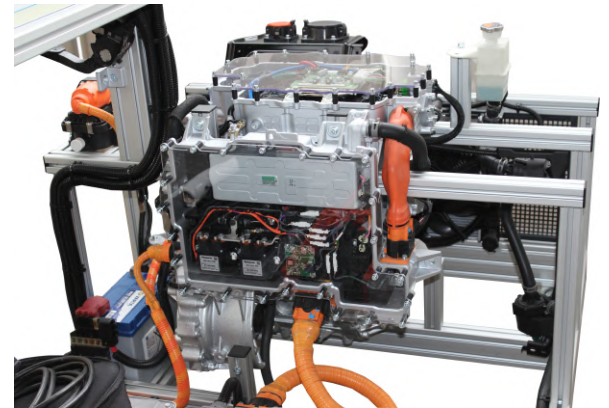
- Integrated real electric car motor.
- Genuine electric inverter for accurate system management.
- Real high-voltage battery, including a high-voltage disconnect plug/fuse for safety.
- Functional electric AC compressor to understand climate control in EVs.
- Genuine "orange" high-voltage cables with connectors and safety features to prevent electrical hazards during training.
- Diagnosis through OBD 16-pole diagnostic socket for ECU operations.
- Includes a principal electric wiring diagram of the electric car for reading and understanding electrical diagrams, component markings, and using this knowledge for troubleshooting and repairing modern electric vehicles.
- Equipped with open contacts for real-time measuring of electrical parameters.
- Allows simulation of up to 10 faults on the EV control system (not the high voltage).
- Includes prepared procedures and instructional manuals with images.
- Durable and mobile, designed for efficient classroom or lab use.





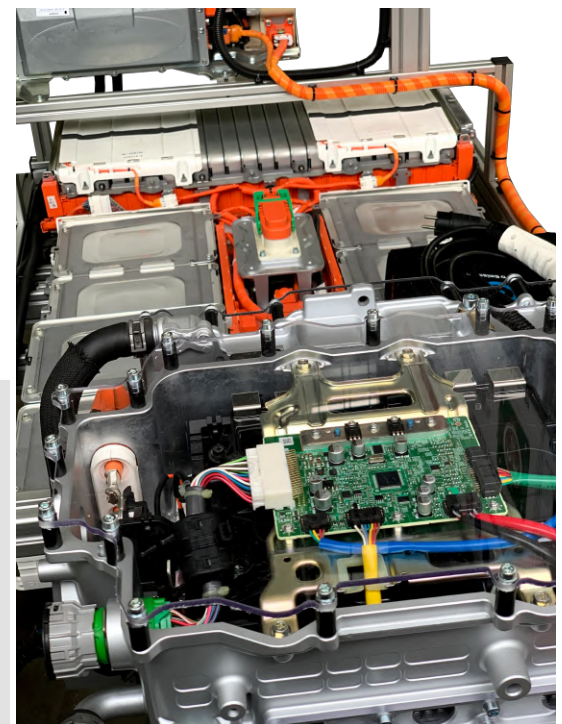
Values for students

- Provides easy, safe, and comfortable training that builds confidence, using OEM components to offer a realistic electric car repair experience.
- Offers practical experience with electric car systems, including the integrated electric motor, inverter, real high-voltage battery, connections, and cables.
- Enables students to study and analyze the electrical circuits of electric car systems, learning about wiring diagrams and related components such as the battery and high-voltage source disconnection plug/fuse, before starting repair or maintenance procedures.
- Integrated principal electric diagram with a measuring box allows students to measure the voltage and electric circuits of each engine component.
- Simulates various faults for diagnostic training, enhancing troubleshooting skills.
- Includes a comprehensive wiring diagram with sensors, actuators, data transmission lines, and diagnostic connections, illustrating component connections and contact numbers.
- OBD II 16-pin diagnostic connectors for ECU identification, reading/erasing fault codes, and live data parameter monitoring.



Values for teachers

- Provides a realistic electric car repair experience with OEM components, enabling the learning and analysis of electric motors, high-voltage batteries, wiring, inverters, faults, and more, related to electric vehicles.
- Features a compact design with an aluminum frame, enhancing mobility and classroom or lab efficiency. Closed panels and internal wiring protect against accidental damage.
- Facilitates real-time data monitoring and fault simulation, including ECU operations.
- Offers multi-student accessibility with a mobile board on castors, allowing concurrent use by multiple students, promoting collaborative learning and practical training opportunities.
- Boasts a space-saving, functional, and durable design: compact and vertically oriented for enhanced mobility and efficient use of classroom space. The durable and light construction from a solid aluminum frame ensures longevity and safety. Closed panels and internal wiring provide safety and prevent accidental damage to sensitive training stand parts.
- Designed for simplicity, requiring only small adjustments to reset to default parameters, making it easy to prepare and start each lesson quickly and efficiently.



Specifications

- Dimensions: 2505 x 1055 x 1605 mm (98.62 in×41.54 in×63.19 in)
- Weight: approx. 700 kg (1543 lb)
- Power supply: 12 V battery, high-voltage battery (~400 V) 24 kWh, 230 V 50 Hz household electricity network
- Motor power: 80 kW (109 HP), 280 Nm torque
- Safety equipment: protective tools set EHVS01 (recommended for safe operation)