AutoEDU 2024 Catalogue

ABOUT US

In 2003 the company began manufacturing vocational automotive training equipment under the AUTOEDU brand. We design and manufacture automotive training equipment and other educational products for teaching and training purposes of automotive technology.

Our manufactured automotive training equipment is a valuable tool for students of technical subjects, aiding in their understanding of the working processes in various automotive systems. It allows them to explore different sensors, actuators, and other devices, along with their functions. By using our manufactured equipment, students can learn how to perform various measurements, read and comprehend technical documentation, schematics, wiring diagrams, error codes, signal characteristics, and diagnostic procedures.

Our product range consists of:

• Cars and trucks with self – contained, fully operational engines featuring different fuel supply systems: gasoline (MPI, FSI, TFSI, TSI, etc.), diesel (TD, TDI, Common Rail, PD, PLD, etc.) and hybrid gasoline-electric drive system. All our manufactured operational engines are available with pin-out facilities and fault simulation to assist students in the diagnostic training and to help them understand modern vehicle systems.

• Training boards-simulators are based on OEM components and specially designed to help technical students better understand the structure and components of automotive systems, including engine control system (gasoline and diesel), ABS, SRS, etc. These functional models serve as fully operational educational tools in space-saving version of a complete car, providing all its advantages.

• Cutaway models of automotive components: engines, gearboxes, etc.

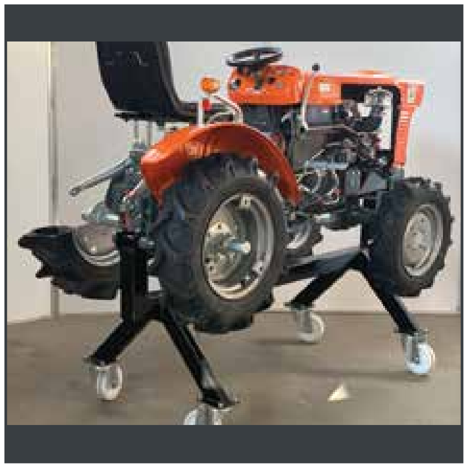
Our customers:

• Vocational high schools
• Technical colleges
• 2-yr & 4-yr colleges
• Automotive technical schools
• Agriculture schools
• Private technical training organizations
• Diagnostic equipment and workshop equipment manufacturers
• Diagnostic equipment and garage equipment suppliers and wholesalers


AUTOEDU












EDUCATIONAL GASOLINE ENGINE TRAINER WITH DIRECT INJECTION SYSTEM

A self-contained, fully operational engine is installed in a mobile frame. This training engine, equipped with direct gasoline injection (TSI) system, is specially designed to demonstrate the engine management system and operational structure. The educational training engine is based on Audi/VW original (refurbished) components with the MOTRONIC MED 17.5.5 engine management system.

The training engine serves as an excellent educational tool, enabling students to understand the engine's structure and components, as well as operation modes of the engine control system. It allows to perform various measurements, tests, and other diagnostic procedures.

Order No.: MVTSI01

Optional accessories

- Examination console for 10 hidden fault simulations
- Vacuum gauge
- The pressure gauge in the fuel supply line
- Automotive oscilloscope
- OBD diagnostic scan tool
- The gas analyzer
- The exaust extraction system

Control unit diagnostic
- Diagnosis through OBD 16 - pin diagnostic connector
- Electronic control unit (ECU) identification
- Reading/erasing fault codes
- Displaying the operating system parameters (live data)
- Actuator test (depends on the control unit)
- Throttle adaptation
- Control unit coding/configuration

Other
- The stand has a closed structure - internal wiring is not visible: instrument cluster, measurement and fault simulation, panel is integrated in a closed aluminum frame construction
- Dimensions approx.: 1550x1000x1200 mm (HxLxW)
- Nett weight approx.: 300 Kg
- Made in Lithuania
- CE certificate

Oscilloscope/Multimeter
- System's parameters are measured by connecting to the banana connector
- Ability to measure electrical signal parameters of each system component (such as sensor or actuator)
- Ability to measure high voltage circuit of the ignition system

Technical specifications and functions

• An educational functional engine model featuring a direct gasoline injection (TSI) system, instrument cluster, cooling system, power supply system, turbocharger, and exhaust system.
• Capability to measure exhaust gas before and after the catalytic converter.
• Equipped with safety removable panels to safeguard against hot and rotating parts.
• Includes an electric wiring diagram with built-in banana plug jumpers for measurements and simulation of system fault codes.
• Ability to simulate more than 30 faults by disconnecting banana plug jumpers.
• The engine with external components becomes crearly visible after removing safety panels, allowing easy access for service and maintenance.
• Integrated engine emergency stop button for added safety.

EDUCATIONAL GASOLINE ENGINE TRAINER WITH DIRECT INJECTION SYSTEM EURO 3

The training gasoline engine operates and is utilized similary to the conventional internal combustion engines found in automobiles. The circuit diagram is equipped with jumpers and electrical contacts designed for measuring and monitoring the working parameters of various components. Upon removing the jumpers, simulation of failures become possible, enabling the observation of changes in the motor's operation.

When connected to the OBD II diagnostic connector using a system scanner, it becomes feasible to monitor engine operating parameters, read and delete errors, and perform the activation of performance elements, facilitating thorough diagnostic processes.

Order No.: MVGDI01

Educational engine trainer includes:

- Console
- Frame
- Gasoline engine
- Accelerator pedal
- Transport wheels

- Dash board
- Electrical diagram with measuring contacts and jumpers
- Fuse box
- Battery connection indication
- STOP switch
- OBD II diagnose connector
- Ignition Key

EDUCATIONAL GASOLINE ENGINE TRAINER WITH DIRECT INJECTION SYSTEM EURO 4

Self-contained, fully operational engine is installed in a mobile frame. This training engine, equipped with a direct gasoline injection (TSI) system, is specially designed to showcase the engine management system and operational structure. The educational training engine is crafted from refurbished components sourced from Audi/VW, featuring the MOTRONIC MED 17.5.5 engine management system.

Serving as an excellent educational tool, this training engine enables students to comprehend the engine's structure and components, along with the operational modes of the engine control system. It facilitates hands-on learning by allowing students to perform various measurements, tests, and other diagnostic procedures.

Order No.: MVFSI01

Control unit diagnostic

- Diagnosis through OBD 16 - pin diagnostic connector
- Electronic control unit (ECU) identification
- Reading/erasing fault codes
- Displaying the operating system parameters (live data)
- Actuator test (depends on the control unit)
- Throttle adaptation
- Control unit coding/configuration

Oscilloscope/Multimeter

- System's parameters are measured by connecting to the banana connector
- Ability to measure electrical signal parameters of each system component (such as sensor or actuator)
- Ability to measure high voltage circuit of the ignition system

Other

- The stand has a closed structure - internal wiring is not visible: instrument cluster, measurement and fault simulation panel is integrated in a closed aluminium frame construction
- Dimensions approx.: 1550x1000x1200 mm (HxLxW)
- Nett weight approx.: 310 Kg
- Made in Lithuania
- CE certificate

EDUCTIONAL MOTORCYCLE ENGINE TRAINER WITH A FUEL INJECTION SYSTEM

The equipment is meticulously designed and manufactured to offer learners clear and convenient information about the structure of the unit, the composition of the system, and the operating principles. This training equipment is specifically crafted for demonstration, training and learning purposes, providing comprehensive insights into the design, construction, operational principles, settings, and adjustments of the motorcycle gasoline engine.

Order No.: MVMC01

Training equipment
• Console
• Frame
• Motorcycle engine
• Transport wheels
• Accelerator
• Gear shift lever

Control panel
• Dash board
• Electrical diagram with measuring contacts and jumpers
• Fuse box
• Battery connection indication
• STOP switch
• OBD II diagnose connector
• Ignition Key

Other
• The stand has a closed structure - internal wiring is not visible: instrument cluster, measurement and fault simulation panel is integrated in a closed aluminium frame construction
• Dimensions approx.: 1520x1160x950 mm (HxLxW)
• Nett weight approx.: 218 Kg
• 12 V battery power supply
• Made in Lithuania
• CE certificate

Technical specifications and functions

- Fully functional system based on 2/4 cylinders motorcycle engine
- With ignition, injection, and exhaust system
- Diagnosis through the diagnostic socket
- Open contacts for measuring system components and circuits
- Fault code simulations

TRUCK TRAILER REFRIGIRATION SYSTEM TRAINING STAND

The educational refrigeration equipment stand functions similarly to a standard refrigeration unit on a truck trailer. To facilitate working with this equipment, it is removed from the trailer and mounted on a metal frame with wheels and protective features. The control of this equipment is carried out using a remote control. All refrigeration equipment settings and temperature modes are adjusted with this remote control.

Other

- 12 V battery for internal combustion engine
- Length: 2070 mm
- Width: 1300 mm
- Height: 2500 mm
- Nett weight approx.: 1050 kg
- Made in Lithuania

Description

- Fully functional system;
- With internal combustion engine;
- With electrical motor 400V;
- Cooling and heating system;
- Diagnosis through, diagnostic socket;
- Mobile, with 4 casters.

Order No.: MSTRREF01

OTHER WORKING ENGINE MODELS

Educational gasoline engine with direct multipoint injection system

- Instrument panel
- Electrical diagram with measurement contacts and short circuits
- Fuses
- Powered battery indicator
- Emergency shutdown button
- OBD II diagnostic connector
- Ignition key

Order No.: MVMPI04

Educational Truck Diesel engine trainer with CR system

- Fully functional system
- 4 cylinders inline
- Diagnosis through OBD 16 pole diagnostic socket
- Open contacts for measuring system components and circuits
- Fault code simulations

Order No.: MVSCR01

Educational gasoline engine trainer with direct injection system (TSI) EURO 6

- Fully functional system
- 4 cylinders in line, 1.2 – 2.0 TSI
- Diagnosis through OBD 16 pole diagnostic socket
- Open contacts for measuring system components and circuits
- Fault code simulations

Order No.: MVTSI03

Educational gasoline engine trainer with direct injection system (FSI) EURO4

- Fully functional system
- Diagnosis through OBD 16 pole diagnostic socket
- Open contacts for measuring system components and circuits
- Fault code simulations

Order No.: MVFSI01

Educational motorcycle engine with a fuel injection system

- Fully functional system based on 2/4 cylinders motorcycle engine
- With ignition, injection, and exhaust system
- Diagnosis through the diagnostic socket
- Open contacts for measuring system components and circuits
- Fault code simulations

Order No.: MVMC02

Educational hybrid engine trainer

- Fully functional system
- Diagnosis through OBD 16 pole diagnostic socket
- Open contacts for measuring system components and circuits
- Fault code simulations

Order No.: MVHY01

DUAL ZONE AIR CONDITIONING AND CLIMATE CONTROL TRAINER

Fully functional dual zone air conditioning and climate control system trainer is installed in a mobile aluminium frame. This training board – simulator is specially designed to help technical students understand better electronics, mechanics and the theory of air conditioning and climate control system the educational training stand is based on Audi/VW OEM components. The integrated air conditioning and climate control system shows the different operation modes.

The training board-simulator is a great educational tool that allows students to learn the structure of air conditioning and climate control system, study its components, and perform various measurements, tests and other diagnostic procedures to use diagnostic scan tools or other special tools and equipment. To show all the functions of climate control, in this educational aid is installed the auxiliary heating unit which could be petrol or diesel on request.

Training equipment

• Air-conditioning system trainer
• With auxiliary diesel heating unit
• Electronic climate control system
• Fully functional system with R1234yf refrigerant
• Diagnosis through OBD 16 pole diagnostic socket
• Open contacts for measuring of system's components and circuits
• Fault code simulations

Control unit diagnosis

• Diagnosis through OBD 16–pin diagnostic connector
• Electronic control unit (ECU) identification;
• Reading/erasing fault codes
• Displaying the operating system parameters (live data)
• Activating the actuators (depends on the control unit)
• Diagnosis of auxiliary heating unit through the specific diagnostic socket

Order No.: MSC04-R1234YF-D

Other

• Power supply: 220 V
• Dimensions approx.: 1240x1420x700 mm (HxLxW)
• Nett weight approx.: 130 Kg
• Made in Lithuania
• CE certificate

Technical specifications and functions

• Integrated electronic 2C - Climatronic heating and air conditioning system
• Monitoring operation modes of air conditioning and climate control system
• Visible HVAC compressor, electromagnetic compressor clutch, and its operation modes
• With installed pressure gauges it is possible to monitor the pressure distribution of R1234yf refrigerant in the high and low pressure sides (circuits)
• Visible HVAC (heating, ventilating and air conditioning) mixing unit with its operation modes;
• Visible the operation of airflow flaps
• Ability to monitor and control changes to the parameters of each system component:
• The air flow fan speed, positions
• The interior (inside) temperature
• The Refrigerant R1234yf pressure changes depending on the speed of the cooling radiator fan
• The rate of the temperature change depending on the speed of the airflow radiator fan
• The air flow flap position according to operation modes: defrost, air recirculation (fresh air) or footwell
• The training stand has a complete electrical wiring diagram with built-in banana plug jumpers for measurements and simulation of the system fault codes
• Ability to simulate more than 15 system faults by disconnecting banana plug jumpers. Ability to monitor the changing operation mode of each system component;
• The training stand has integrated auxiliary heating unit which could be petrol or diesel on request. The heating unit granting the delivery of heated coolant fluid to heating exchange unit to make possible to run climate control on to show how it cooling or hating the air.

CAN BUS EDUCATIONAL TRAINER

A self-contained, fully operational engine is mounted in a mobile frame. This training engine, featuring a direct gasoline injection (TSI) system, is specifically designed to illiustrate the engine management system and operational structure. Crafted from original (refirbished) components of Audi/VW, it intergrates the MOTRONIC MED 17.5.5 engine management system.

Functional as an outstanding educational tool, this training engine enables students to grasp the engine's structure, understand its components, and familiarize themselves with operation modes of the engine control system. It facilitates hands-on learning by allowing students to conduct various measurements, tests, and diagnostic procedures.

Order No.: MSCAN01

Optional accessories

- Examination console for 10 hidden fault simulations
- Vacuum gauge
- The pressure gauge in the fuel supply line
- Automotive oscilloscope
- OBD diagnostic scan tool
- The gas analyzer
- The exaust extraction system

Control unit diagnostic

- Diagnosis through OBD 16 - pin diagnostic connector
- Electronic control unit (ECU) identification
- Reading/erasing fault codes
- Displaying the operating system parameters (live data)
- Actuator test (depends on the control unit)
- Throttle adaptation
- Control unit coding/configuration

Other

- The stand has a closed structure - internal wiring is not visible: instrument cluster, measurement and fault simulation, panel is integrated in a closed aluminum frame construction
- Dimensions approx.: 1550x1000x1200 mm (HxLxW)
- Nett weight approx.: 300 Kg
- Made in Lithuania
- CE certificate

Oscilloscope/Multimeter

- System's parameters are measured by connecting to the banana connector
- Ability to measure electrical signal parameters of each system component (such as sensor or actuator)
- Ability to measure high voltage circuit of the ignition system

ELECTRIC VEHICLE TRAINING STAND

Order No.: MSEV02

Technical specifications and functions

• Electric motor
• Electric controller
• Electric battery
• Electric Air conditioner compressor
• All systems and components are connected by high voltage cables. All components are covered with protective plexiglass for safety reasons
• All components are mounted on an aluminium frame with castors.
• Diagnosis through OBD 16 pole diagnostic socket
• High voltage unit is ready for safe use in the training process
• Battery with high-voltage disconnect fuse is easily accessible for training purposes

DIESEL ENGINE CONTROL SYSTEM CR/EDC 15 EDUCATIONAL MODEL

A fully functional engine control system is securely installed in a mobile aluminum frame. This training board-simulator is specifically designed to enhance the understanding of technical students, focusing on the diesel injection Common Rail system. The educational training board is constructed with OEM components sourced from Renault. The integrated engine control system, Bosch EDC 15, illustrates various operation modes of the direct fuel injection system.

Serving as an outstanding educational tool, this training board-simulator enables students to grasp the structure of the engine control system, study its components and operation modes, and conduct various measurements, tests, and diagnostic procedures.

Oscilloscope/Multimeter

• System's parameters are measured by connecting to the banana connector
• Ability to measure electrical signal parameters of each system component (such as sensor or actuator)

Control unit diagnosis

• Diagnosis through OBD 16 – pin diagnostic connector
• Electronic control unit (ECU) identification
• Reading/erasing fault codes
• Displaying the operating system parameters (live data)
• Activating the actuators (Depends on the control unit)
• Control unit encoding/configuration

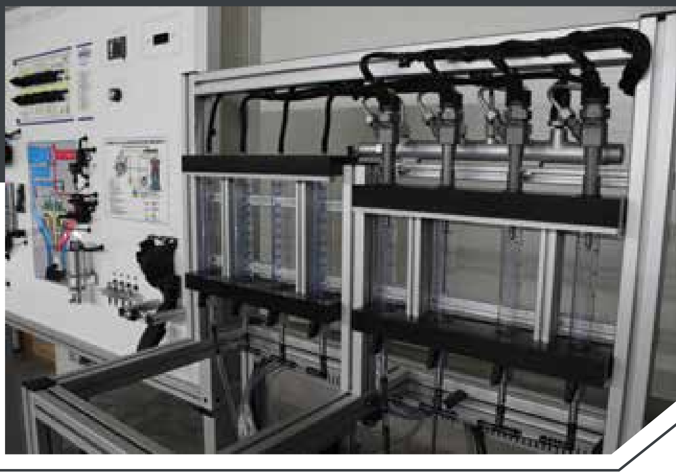
Other

• The stand has a closed structure – internal wiring is not visible
• Power supply: 220/12 V
• Dimensions approx.: (HxLxW)
• Electronicpart (board) 1820x1360x500mm
• Mechanical part (trolley) 1500x800x500 mm
• Nett weight approx.: 135 Kg
• Made in Lithuania
• CE certificate

Order No.: MSFSI01

Optional accessories

• Examination console for 10 hidden fault simulations
• Automotive oscilloscope
• OBD diagnostic scan tool



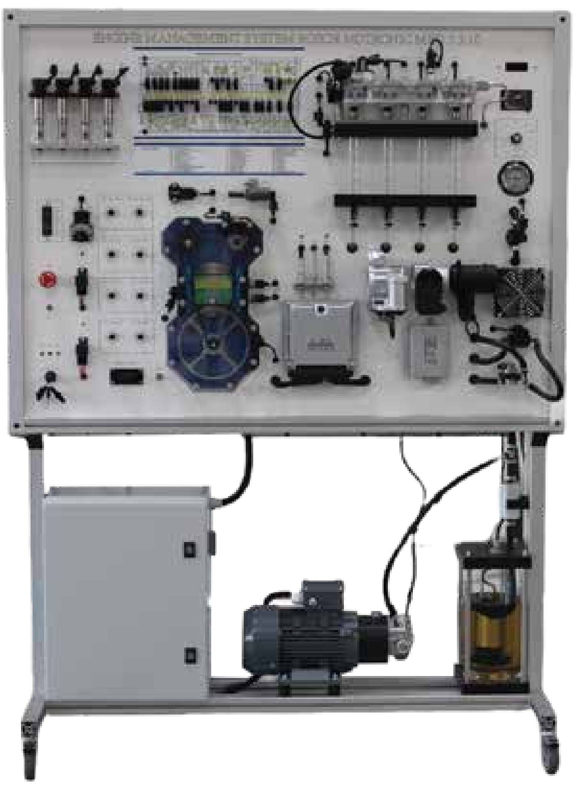
Technical specifications and functions

• Integrated engine control system with diesel Common Rail direct injection
• The stand consists of two parts: one is designed to demonstrate the work of the high pressure pump and the injectors, the other – to demonstrate the electronic engine management system. Both parts are electrically interconnected and operate as a single system
• Monitoring operation of high pressure fuel supply system, injected fuel quantity, the amount of fuel back leak, spray pattern quality
• The adjustable air flow rate simulator demonstrates the function of the mass - air flow meter and air temperature sensor
• Manual adjustment of the engine crankshaft speed
• Integrated simulators allow changes to the parameters of engine temperature sensor
• Integrated simulators allow changes to the parameters of intake air pressure sensor
• Electric wiring diagram with built – in banana plug jumpers for measurements and simulation of system fault codes; Ability to monitor the changing operation mode of each system component
• Ability to simulate more than 20 faults by disconnecting Banana plug jumpers

ENGINE CONTROL SYSTEM BOSCH MOTRONIC MED 7.5.10 (FSI) TRAINING BOARD-SIMULATOR

A fully functional engine control system is securely installed in a mobile aluminum frame. This training board-simulator is expertly crafted to enhance the understanding of technical students, focusing on the direct gasoline injection (FSI) system MOTRONIC MED 7.5.10. Developed with OEM components from Audi/VW, the educational training board features an integrated engine control system illustrating various operation modes of the direct fuel injection/ignition system.

Serving as an exceptional educational tool, this training board-simulator enables students to delve into the structure of the engine control system, study its components and operation modes, and conduct various measurements, tests, and diagnostic procedures.



Order No.: MSFSI01

Other

• The stand has a closed structure – internal wiring is not visible
• Power supply: 220V
• Dimensions approx.: (HxLxW) 1820x1360x500mm
• Nett weight approx.: 105 Kg
• Made in Lithuania
• CE certificate

Oscilloscope/Multimeter

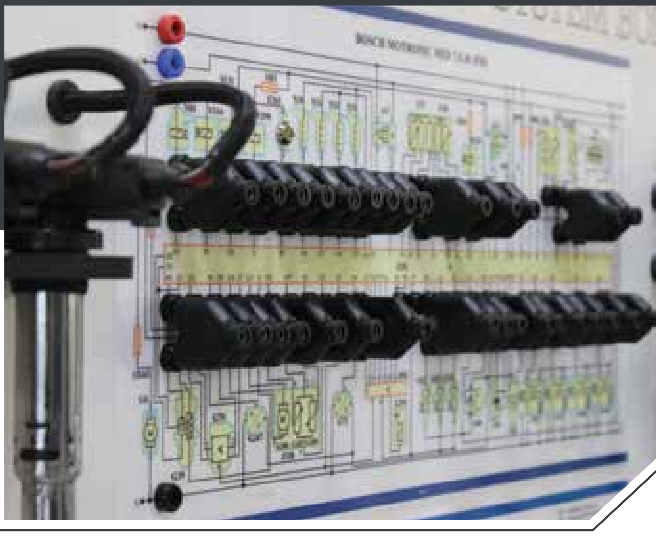
• System's parameters are measured by connecting to the banana connector
• Ability to measure electrical signal parameters of each system component (such as sensor or actuator)
• Ability to measure high voltage circuit of the ignition system

Control unit diagnosis

• Diagnosis through OBD 16 – pin diagnostic connector
• Electronic control unit (ECU) identification
• Reading/erasing fault codes
• Displaying the operating system parameters (live data)
• Activating the actuators (Depends on the control unit)
• Throttle valve adaptation
• Control unit encoding/configuration

Optional accessories

• Examination console for 10 hidden fault simulations
• Vacuum/pressure pump
• Automotive oscilloscope
• OBD diagnostic scan tool



Technical specifications and functions

• The integrated engine control system with direct gasoline injection (FSI)
• Monitoring operation of fuel supply system, injected fuel quantity, spray pattern quality, low fuel pressure of the fuel pump
• Low pressure fuel pump is built into a transparent tank which allows to see its operation
• The adjustable air flow rate simulator demonstrates the function of the mass - air flow meter and air temperature sensor
• Visible work process of spark plugs
• Easy access for high voltage measurements
• Manual adjustment of the engine crankshaft speed
• Integrated simulators allow changes to the parameters of each system component:
• Lambda probe signal simulation;
• Engine operation temperature simulation;
• NOx sensor parameter simulation;
• Exhaust gas temperature sensor simulation;
• Intake manifold pressure sensor simulation;
• The training board has a complete electric wiring diagram of direct petrol injection system (FSI)
• Electric wiring diagram with built – in banana plug jumpers for measurements and simulation of system fault codes; Ability to monitor the changing operation mode of each system component
• Ability to simulate more than 20 system faults by disconnecting Banana plug jumpers
• Training board has an integrated TFT voltmetre. It displays voltage of different electronic system components

TRUCK AIRBRAKE TRAINING STAND

The Truck Airbrake Training Stand MSTAIR-B1 and MSTAIR-ABS1 are securely installed in a mobile aluminum frame. This training board-simulator is meticulously designed to aid technical students in comprehending truck and trailer pneumatic systems. Constructed with OEM components, the educational training board serves as an excellent tool for students to learn about the truck and trailer airbrake system, study its components and operation modes, and conduct various measurements, tests, and diagnostic procedures.

Order No.: MSSPPS01

Technical specifications and functions

• A fully functional system based on the real components
• Functional pneumatic system truck and trailer
• 6 measuring gauges for truck lines and 3 for a trailer

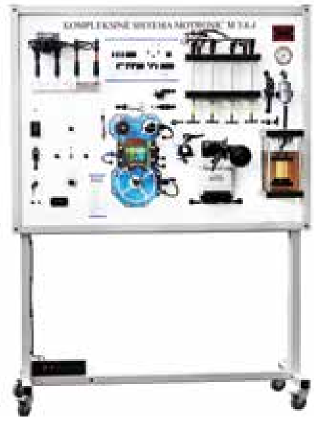
Other

• Dimensions approx. (HxLxW): 1700 x 2900 x 1700 mm
• Netto weight approx.: 300 Kg

Ignition System Educational Trainer

- Fully functional system
- Open contacts for measuring system components and circuits
- Real, not simulated signals

Order No.: MSUS01



Engine control system MOTRONIC M 3.8.X (MPI)

- Fully functional system
- Diagnosis through OBD 16 pole diagnostic socket
- Open contacts for measuring system components and circuits
- Fault code simulations

Order No.: MSMPI01

Anti-Lock Braking system BOSCH ABS 5.3 training stand

- Fully functional system
- Diagnosis through OBD 16 pole diagnostic socket
- Open contacts for measuring system components and circuits
- Fault code simulations

Order No.: MSABS01

Lighting Training stand

- Fully functional system
- Open contacts for measuring system components and circuits
- Diagnosis of dashboard through OBD 16 pole diagnostic socket

Order No.: MSAS01

ABS/ASR Training stan

- Fully functional system
- Diagnosis through OBD 16 pole diagnostic socket
- Open contacts for measuring system components and circuits
- Fault code simulations

Order No.: MSABS-ASR01

Lighting training board

- Fully functional system
- Open contacts for measuring system components and circuits
- Diagnosis of the dashboard through OBD II diagnostic connetor

Order No.: MSAS03

BRAKE RIGS EDUCATIONAL TRAINER

A fully functional, cross-diagonal hydraulic braking system with ABS is securely installed in a mobile solid frame. This training brake rig is expertly designed to showcase the hydraulic braking system with an electronic ABS system and brake booster. The educational automotive training stand is constructed with components from Audi/VW.

Equipped with a functional ABS braking system demonstrating various operation modes, the training rig includes an integrated OBD 16-pin diagnostic connector. This connector allows connection with a diagnostic tool for performing various measurements, tests, and diagnostic procedures such as reading fault codes and displaying operating system parameters. The training brake rig serves as an exceptional educational tool, enabling students to understand the structure of the hydraulic braking system, study its components, and perform various measurements, tests, and other service and diagnostic procedures.

Control unit diagnosis

- Diagnosis of electronic ABS system through OBD diagnostic connector
- Electronic control unit (ECU) identification
- Reading/ eracing fault codes
- Displaying the operating system parameters (live data)
- The air bleeding mode in a braking system

Other

- Power supply: 12 V from the battery (not included as standart accessory)
- Dimensions 1250x1000x750mm (HxLxW)
- Nett weight approx.: 99 kg
- Made in Lithuania
- CE certificate

Optional accessories

- 12 V battery
- OBD diagnostic scan tool
- Standart tool kit for mechanic
- Special tools for brake system repairs
- Vacuum pump

Order No.: MSSS01

Technical specifications and functions

• Clearly visible fully functional braking system and its components
• Cross diagonal hydraulic braking system with front and rear discs with calipers
• Functional parking brake
• Functional electronic ABS system
• Functional brake booster
• With installed pressure gauses the pressure can be monitored in the brake circuit of each wheel
• Driving mode simulation
• Brake rings can be used for mechanical service and repair training
• On-board diagnostic capabilities
• AUTOEDU brake rigs can perform all routine brake service such as component replacement, adjustments or hydraulic bleeding procedures

ELECTRICAL VEHICLE FUNCTIONAL EDUCATIONAL TRAINER

Training equipment for educational activities serves as a visual tool to explain and demonstrate the structure and operation of various automotive parts, assemblies, structures, and systems. This equipment is utilized as a teaching and learning aid for monitoring and analyzing the work processes of various car systems. It enables the performance of various measurements, the monitoring of ongoing processes, the simulation of faults, and diagnostic procedures. A range of laboratory tasks can be accomplished using this training equipment.

Designed and manufactured with the learner in mind, the equipment provides the clearest and most convenient information about the structure of the unit, the composition of the system, and the principle of operation. The training model of an electric car is an excellent educational tool, allowing students to understand the structure of the engine control system, study its components and operation modes, and perform various measurements, tests, and diagnostic procedures.

Order No.: AE02

Technical specifications and functions

• Educational fully operational electric vehicle based on Nissan Leaf II
• Engine, ABS, AC, Air BAG's and etc. diagnostics
• Built in measuring box with open contacts and wiring diagram for 2 electronic systems
• Fault code simulations for 2 electronic systems
• Number of the pneumatic component same like on the real vehicles

Other

• Dimensions approx.: 4445 x 1770 x 1550 (h) 1700 x 2900 x 1700 mm
• Netto weight approx.: 700 Kg

HYBRID PLUG-IN FUNCTIONAL EDUCATIONAL TRAINER

The equipment serves as a teaching and learning tool for monitoring and analyzing various car system work processes. It allows users to perform various measurements of system parameters, conduct fault simulations, and diagnose issues. Additionally, the training equipment facilitates a variety of laboratory tasks. Designed and manufactured with a focus on clarity and convenience, it provides learners with the clearest information about the structure of the unit, the composition of the system, and the principle of operation.

Order No.: AHPLIN01

Technical specifications and functions

- Educational fully operational hybrid vehicle based on FORD C-Max.
- Hybrid system, Plug-in (PHEV) version
- Engine, ABS, AC, Air BAG's etc. diagnostics
- Built-in measuring box with open contacts and wiring diagram for 2 electronic systems
- Fault code simulations for 2 electronic systems
- Equipment for technical and vocational automotive education and training
- Heating, Ventilation and Air Conditioning Control Module breakout box
- Secondary On-Board Diagnostic Module C breakout box

Other

- Power supply 12 V battery
- High voltage battery 7,6 kWh
- Dimensions approx.: (LxWxH) 4409x2085x1620 mm
- Netto weight approx.: 1620 Kg

TOYOTA PRIUS III PETROL/ELECTRIC/LPG HYBRID ¾ EDUCATIONAL TRAINER

A fully functional hybrid car training model, based on the Toyota Prius III, includes an optional internal combustion engine fueled by a liquefied petroleum gas system (LPG). The training model is mounted on a mobile chassis for convenient use of the equipment. All hybrid car systems are operational, with the drive wheel disengaged to ensure learner safety.

This training model of a hybrid car serves as an excellent tool for studying, demonstrating, and presenting the structure of a hybrid system, LPG supply system, body, chassis structures, and passive and active safety systems. The operating model allows students to learn the specifics of system work, operation modes, various measurements, monitor real parameters, and perform diagnostic procedures.

Order No.: PMTPK05

Control unit diagnosis

• Diagnosis through OBD 16 – pin diagnostic connector
• Electronic control unit (ECU) identification
• Reading/erasing fault codes
• Displaying the operating system parameters (live data)
• Actuator test (depends on the control unit)
• Control unit coding/configuration (depends on the control unit)
• Automatic search of ECU's (depends on scan tools possibility)

Other

• Dimensions approx.: (HxLxW)
1700 x 2900 x 1700 mm
• Nett weight approx.: 900 Kg
• Made in Lithuania
• CE certificate

Optional tools and equipment for measurement and services:

• Oscilloscope
• OBD Diagnostic scan tool
• The gas analyzer
• The exhaust extraction system
• Air Conditioning service station

Optional accessories

• Built in measuring box with open contacts and wiring diagram for engine control system
• Fault simulation for engine control system
• Built in measuring box with open contacts and wiring diagram for climate control
• Fault simulation for climate control
• Built in measuring box with open contacts and wiring
diagram for SRS AIRBAG
• Fault simulation for SRS AIRBAG

Technical specifications and functions

• Sections of the car roof structure at the A, B and C pillars for demonstration
• One side of the front fender of the car has been removed. Exposed parts are clean and covered with anti-corrosion mastic. Front-wheel drive and driven wheel.
• The interior door trim of the car has been removed and convenient access has been made for the strength elements demonstration.
• Car high voltage battery. The tin battery cover is cut and covered with plexiglass for safe access to all essentials.
• High-voltage wires running from the battery to the engine compartment are visible in 2 places in the passenger compartment through plexiglass guards.
• Safe and convenient access to a maintenance high-voltage fuse that disconnects the high-voltage battery. Maintenance connector for disconnecting high voltage batteries.
• Inverter without top cover covered with plexiglass.
• Car fuse box with fuses without top cover, covered with plexiglass.
• LPG gas equipment components and safety elements installed on the gasoline engine. The engine is equipped with a liquefied petroleum gas supply system (LPG).
• The gas filling valve with adapter is installed at the petrol filling point.
• The gas cylinder is installed in the place of the car's spare wheel. Visible components: pressure gauge, gas filling and supply lines, safety valve

TOYOTA PRIUS II HYBRID PLUG-IN FUNCTIONAL EDUCATIONAL TRAINER

The equipment serves as a teaching and learning tool for monitoring and analyzing various car system work processes. Users can perform various measurements of the system parameters installed in the training equipment, conduct fault simulations, and diagnose issues. The training equipment facilitates a variety of laboratory tasks. Designed and manufactured with a focus on clarity and convenience, it provides learners with the clearest information about the structure of the unit, the composition of the system, and the principle of operation.

Order No.: AHPLIN03

Other

- Power supply 12 V battery
- High voltage battery 21,5 Ah, 207 V
- Dimensions approx.: (LxWxH) 4480x1745x1490 mm
- Netto weight approx.: 1420 Kg

Technical specifications and functions

- Educational fully operational hybrid vehicle based on TOYOTA PRIUS
- Hybrid system, Plug-in (PHEV) version
- Engine, ABS, AC, Air BAG's etc. diagnostics
- Built-in measuring box with open contacts and wiring diagram for 2 electronic systems
- Fault code simulations for 2 electronic systems
- Equipment for technical and vocational automotive education and training
- Engine Control Module and Power Management Control ECU breakout box

Electrical vehicle functional Educational Trainer

- Educational fully operational electric vehicle based on Nissan Leaf
- Engine, ABS, AC, Air BAG's and etc. diagnostics
- Built in measuring box with open contacts and wiring diagram for 2 electronic systems
- Fault code simulations for 2 electronic systems

Order No.: AE01

Toyota PRIUS II Hybrid ½ Educational Trainer

- Educational fully operational vehicle.
- Electrical system with the front end fully functional
- Alternative to complete vehicle - space-saving version, complete front end with complete back electrical part, the bumper and tail light
- Two front wheels and rear-mounted rollers for movement
- Engine, ABS, AC, Air BAG's and etc. diagnostics
- Equipment for technical and vocational automotive education and training.

Order No.: PMTP01

Toyota PRIUS III Hybrid ½ Educational Trainer

- Educational fully operational vehicle.
- Electrical system with the front end fully functional
- Alternative to complete vehicle - space-saving version, complete front end with complete back electrical part, the bumper and tail light
- Two front wheels and rear-mounted rollers for movement
- Engine, ABS, AC, Air BAG's and etc. diagnostics

Order No.: PMTP03

Toyota PRIUS II Hybrid ½ (Cabrio version) Educational Trainer

- Electrical system with the front end fully functional
- Alternative to complete vehicle - space-saving version
- Two front wheels and rear-mounted rollers for movement
- Engine, ABS, AC, Air BAG's and etc. diagnostics

Order No.: PMTPK01

GASOLINE DOHC MPI ENGINE ½ CUTAWAY EDUCATIONAL TRAINER

The equipment is designed and manufactured to demonstrate piston, rings, combustion chamber, intake and exhaust ports, DOHC components, injector and glow plug positions in a combustion chamber as well as operation of the DOHC mechanism by turning the crankshaft. Training cut-away model is not suitable for intensive rotation. All rotating parts must be lubricated before the rotation.

Order No.: IVDB01

Description

- For timing chain replacement training
- Auxiliary drive belt replacement training
- DOHC twin overhead camshaft
- 4 valves per cylinder
- Water cooling, 12V alternator

Visible components

- Engine block
- Head and valves
- Crankshaft
- Connecting rod
- DOHC dual overhead camshaft (camshafts, valves, valve lifters, water pump and etc.)
- Pistons with rings
- Timing chain with camshaft sprocket and tensioners, oil pump
- Alternator belt with tensioner

Other

- Minimal space for training and storage
- Minimal weight in order to avoid additional transportation or mounting stands. Demonstrations can be performed on any workbench or tool trolley
- Cross-section of the trainer is protected with safety plastic protection
- The training model is equipped with fasteners
- Dimensions approx. (HxLxW): 750x670x440 mm
- Nett weight approx.: 81 Kg
- Made in EU

Technical specifications and functions

The educational cutaway engine model contains all elements of the original car: timing chain, tensioners, alternator belt, crankshaft sprocket and etc. Using instructions and recommendations it is possible to demonstrate chain replacement procedures. Torque measurements of the components can be performed by using special tools.

DIESEL OHC COMMON RAIL ENGINE CUTAWAY MODELTIMING BELT REPLACEMENT

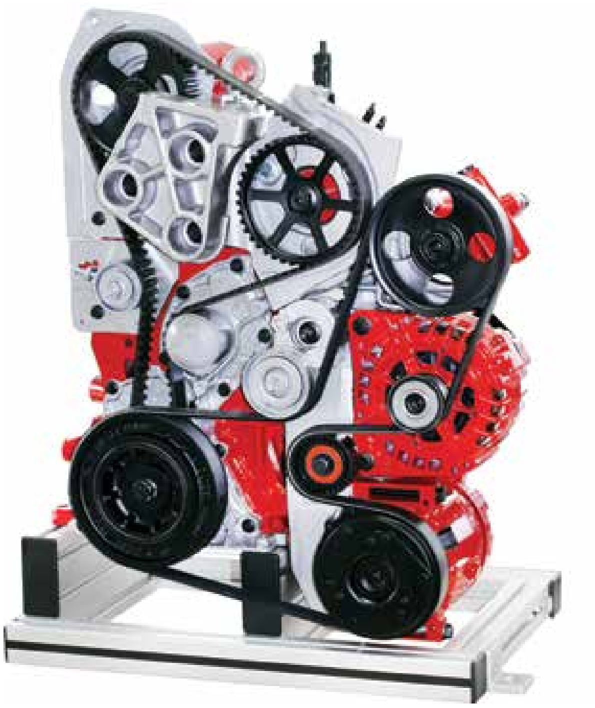
The educational training engine model is constructed using original components of the vehicle. This cutaway model is colored with different shades to facilitate easier differentiation of various parts and cross-sections.

Description

• Demonstration of the different components of the engine
• Demonstration of the OHC timing belt replacement using special tools
• Demonstration of the alternator belt replacement
• Demonstration and explanation of the technical literature/diagrams and procedures
• Demonstration of the OHC engine with Diesel Common Rail injection (CR) combustion chamber

Visible components

• Engine block
• Engine head
• Crankshaft
• OHC camshaft with valves
• Pistons with rings
• Timing belt with camshaft sprocket and tensioners
• Alternator belt with tensioner
• High pressure CR pump
• Power steering pump
• Air conditioner compressor



Order No.: IVOD01-CR01

Other

• Minimal space for training and storage
• Minimal weight in order to avoid additional transportation or mounting stands. Demonstrations can be performed on any workbench or tool trolley
• Cross-section of the trainer is protected with safety plastic protection
• The training model is equipped with bench clamps
• The training model is equipped with special tool kit for timing belt replacement
• Dimensions approx. (HxLxW): 650x600x320 mm
• Nett weight approx.: 75 Kg
• Made in Lithuania

DIESEL OHC COMMON RAIL ENGINE CUTAWAY MODELTIMING BELT REPLACEMENT

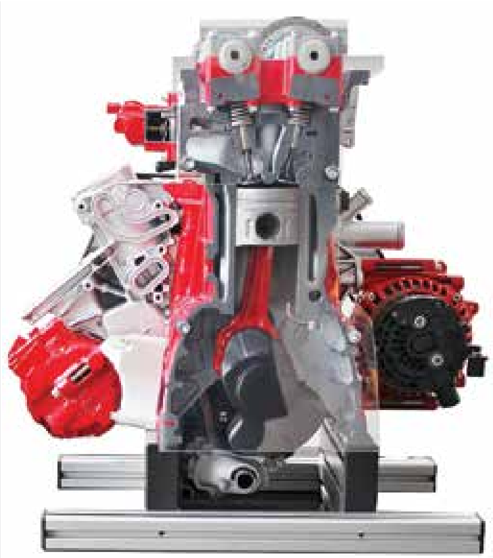
The educational cutaway engine model incorporates all elements found in the original car, such as the timing chain, tensioners, alternator belt, crankshaft sprocket, and more. Following provided instructions and recommendations, it becomes possible to demonstrate belt replacement procedures. Additionally, torque measurements of the components can be conducted using special tools.

Description

• Demonstration of the different components of the engine
• Demonstration of the DOHC timing belt replacement
• Demonstration of the alternator belt replacement;
• Demonstration and explanation of the technical literature/diagrams and procedures
• Demonstration of the engine with direct fuel injection (CR) and DOHC mechanism
• Demonstration of the engine oil pump and lubrication system

Visible components

• Engine block
• Engine head
• Crankshaft
• Connection rod
• DOHC dual overhead camshaft
• Pistons with rings
• Timing chain with camshaft sprocket and tensioners
• Alternator belt with tensioner
• Air conditioning compossor
• High pressure CR pump



Order No.: IVDD01-CR02

Other

• Minimal space for training and storage
• Minimal weight in order to avoid additional transportation or mounting stands. Demonstrations can be performed on any workbench or tool trolley
• Cross-section of the training engine is protected with safety plastic protection
• The training engine model is equipped with fasteners
• Dimensions approx. (HxLxW): 600x500x300 mm
• Nett weight approx.: 75 Kg
• Made in Lithuania

Diesel common rail INJECTION + GEARBOX cutaway model

• 4 in-line cylinders
• Camshaft
• Gearbox 5 forward speeds + reverse
• The engine operates electrically at 220 volts and runs at a reduced speed
• Operation of the various mechanical parts

Order No.: AEMBA170

Direct shift gearbox cutaway model

• The DSG gearbox model is mounted on the stand
• Manual rotation
• The cutaway gearbox model on aluminium base

Order No.: AE1064

Truck Turbo charger cutaway model

• On a base
• Equipment for technical and vocational automotive education and training

Order No.: AETTC

Ignition and charging system

• Rotating the flywheel, it shows the operation of the whole unit and the spark flashing in the respective spark plugs is shown as well
• Main components of the coil ignition of a 4-stroke engine: battery, spark coil, spark plugs

Order No.: AE410000E

Alternator single-flow cooling cutaway model

• On base

Order No.: AE410080M

Gasoline DOHC Engine 1/4 cutaway model

• DOHC twin overhead camshaft
• 4 valves per cylinder
• Piston with the rings
• 1 cylinder
• The cutaway model on aluminium base

Order No.: IVDB01-Q

Automatic transmission

• Rear drive 4 forward + reverse
• Rotation manually, by handle
• Casing, torque converter
• Oil pump, stationary plate clutch
• Rotary plate clutch, planetary gear train
• Hydraulic circuit valve, centrifugal regulator

Order No.: AE411060M

ZF 16S ecosplit gearbox for heavy trucks 16F + 2R cutaway model

• Heavy vehicles gearbox, with possibility of selecting any speed
• Operated manually through a hand wheel
• Weight approx.: 400 kg

Order No.: AE411069M

Gearbox with triple reduction gear cutaway model

• Heavy vehicles gearbox
• With possibility of selecting any speed
• Operated manually through a hand wheel
• Gearbox cutaway model on stand with wheels
• Weight approx.: 200 kg

Order No.: AE411080M

Centifugal clutch cutaway model

• On a base

Order No.: AE411141M

Rear axle heavy truck with locking differential cutaway model

• The main components are: Bevel gear, Differential with locking, Axle shafts, Reducer and planetary on the hub, Brakes with jaws/drum, Double air brake element
• Operated manually

Order No.: AE411198M

Rear suspension model

• Rear suspension with the sectioned shock absorbers, springs and brake drums
• Suspension model mounted on stand with wheels

Order No.: AE411204M

Sectioned front suspension unit

- McPherson Strut Type suspension
- Shock absorber, spring
- Rack and pinion steering box
- Disc brake
- Steering wheel
- Sectioned suspension mounted on the stand with wheels

Order No.: AE411210M

Hydraulic brake chassis trainer

- McPherson suspension
- Shock absorber
- Spring
- Rack and pinion steering box
- Disc brake
- Drum brake
- Hydraulic pump
- Brake lever
- Steering wheel

Order No.: AE411220M

Torsen differential cutaway model

- Accurate section of Torsen bevel gear pair differential assembly, to show principle
- Fitted to top of the range four wheel drive motorcars

Order No.: AE411270M

Rear axle with differential - manual

- Rigid rear axle complete with the differential unit, axle shafts, and rear drum brakes, carefully sectioned to show the operation of the differential unit where planetary gears, the ring gear, and the pinion are clearly displayed
- A brake drum and a cylinder are sectioned too.

Order No.: AE411200M

Drum brake cutaway model

- Section of a drum brake
- The cylinder and shoes are clearly shown
- Brake cutaway model on the base

Order No.: AE412010M

Bevel helical reducer - manual

- On stand

Order No.: AE413110M

Hybrid system gasoline/electric system cutaway model

- 4 in-line cylinders
- Toyota hybrid system
- Multi point injection
- Engine + electrical motors
- Transmission with the differential group
- The engine and the generator can be rotated manually

Order No.: AE34500M

16 valve 4 cylinders fiat engine with multi-point electronic injection cutaway model

- 4 in-line cylinders
- DOHC twin overhead camshaft
- Multipoint electronic injection with ignition integrated control unit
- Vibration-damping balancing shafts
- Manual operation

Order No.: AE34800E

Fiat gasoline engine with carbu-rettor + gearbox cutaway model

- 4 in-line cylinders
- Camshaft in head, Carburettor, Electronic ignition, Timing belt distribution
- Gearbox: 5 forward speeds + reverse with differential
- The engine operates electrically at 220 volts and run at a reduced speed to let the student easily understand and observe the operation of the various mechanical parts

Order No.: AE35220-CE

16 valve 4 cylinders fiat engine with multi-point electronic injection + gearbox 5 forward speeds + reverse cutaway model

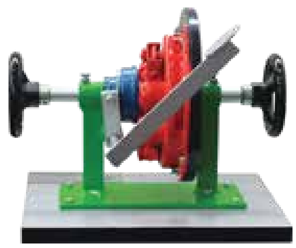
- 4 in-line cylinders, DOHC twin overhead camshaft
- Multipoint electronic injection
- Vibration-damping balancing shafts
- Gearbox 5 forward speeds + reverse
- The engine operates electrically at 220 volts and runs at a reduced speed to let the student easily understand and observe the operation of the various mechanical parts.

Order No.: AE34805E

2 cylinders gasoline engine Cutaway model

- Air cooling
- Displacement: 500 cu. Cm
- Camshaft in the crankcase
- Single body carburettor
- Overhead valves
- Manual operation
- The cutaway engine mounted on the base

Order No.: AE35230



Single disc clutch Coil spring model

- Clutch disc, pressure plate, throw out bearing and release fork and pressing handle
- Rotation of the clutch disk by hand
- Clutch cutaway model on the base

Order No.: AE411110M

Standard petrol multi-point engine chassis with working light system chassis trainer

• Fiat chassis with front drive 4 cylinders, petrol, electronic injection MPI
• Gearbox: 5 forward speeds + reverse+ differential
• Double circuit brake system with servo brake
• Front-disc brake, Rear-drum brake, Working front and rear light system controlled by a dashboard
• The engine operates electrically at 220 volts and run at a reduced speed to let the student easily understand and observe the operation of the various mechanical parts
• The chassis trainer and the cutaway components is mounted on the stand with the wheels

Order No.: AE35274E

Standard petrol multi-point engine chassis trainer

• Fiat chassis with front drive 4 cylinders, petrol, electronic injection MPI
• Gearbox: 5 forward speeds + reverse+ differential
• Double circuit brake system with servo brake
• Front-disc brake
• Rear-drum brake
• This cutaway model is carefully sectioned for training purposes, professionally painted with different colours to better differentiate the various parts, cross-sections, Lubricating circuits, fuel system, cooling system etc.
• The engine operates electrically at 220 volts and run at a reduced speed to let the student easily understand and observe the operation of the various mechanical parts

Order No.: AE35350E

Fiat double shaft (DOHC) engine with multi-point electronic injection with light system chassis trainer

• 4-stroke petrol engine 4-cylinders
• Displacement 2000 cu Cm
• Gearbox: 5 speeds + reverse
• Differential with hypoid crown wheel and pinion
• Twin overhead camshaft driven by a toothed belt
• Electronic ignition
• Dual braking circuit
• McPherson front suspension
• Rack steering box
• Rear leaf spring suspension
• This cutaway model is carefully sectioned for training purposes, professionally painted with different colours to better differentiate the various parts, cross-sections, Lubricating circuits, fuel system, cooling system etc.
• Many parts have been chromium, plated and galvanized for a longer life.
• The engine operates electrically at 220 volts and run at a reduced speed to let the student easily understand and observe the operation of the various mechanical parts
•The chassis trainer and the cutaway components is mounted on the stand with the wheels.

Order No.: AE35340E

6 cylinders diesel engine truck "Iveco" cursor with electronically controlled pump injectors cutaway model

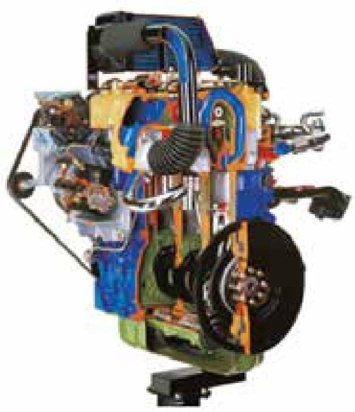
• Displacement: 7790/10380 cu Cm
• 4 stroke; 6 in-line cylinders, 4 valves per cylinders
• maximum power 310/450hp
• water cooling
• turbo-compressor
• pump injectors electronically controlled
• pre-heating device
• The engine operates electrically at 220 volts and run at a reduced speed to let the student easily understand and observe the operation of the various mechanical parts

Order No.: AE36083E

Sectioned engine Iveco, Common Rail system (CR) complete with all parts

• 4 – 6 in-line cylinders
• Camshaft
• Operation of the various mechanical parts
• This cutaway model is carefully sectioned for training purposes, professionally painted with different colors to better differentiate the various parts, cross-sections, Lubricating circuits, fuel system, cooling system etc.
• The engine operates electrically at 220 volts and run at a reduced speed to let the student easily understand and observe the operation of the various mechanical parts

Order No.: AE36082



Gasoline multi-point engine chassis with ABS - chassis trainer

• 4 stroke engine; 4 in-line cylinders, 4 valves per cylinder
• Displacement: 2500/2800 cu. Cm
• Power: 150-170 hp At 4000 RPM
• Twin overhead camshaft (DOHC) with timing belt
• Vibration-damping balancing shafts
• Common rail-type direct injection with electro-injectors
• Turbo-supercharger with air-air intercooler
• Alternator-oil filter-oil pump
• The cutaway engine model components is mounted on the stand with the wheels

Order No.: AE36010M

Opposed-piston Engine

• Air cooling system
• Gear distribution with camshaft in the crankcase
• Ignition with magneto
• Single-body carburettor
• The opposited pistons cutaway engine model is mounted on the stand with the wheels

Order No.: AE39260E

INFORMATION OF THE COMPANY

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AutoEDU EXPORT MAP

AutoEDU
MAKING PRACTICE PERFECT

EdTech Global and AutoEDU announce a strategic partnership to bring AutoEDU Automotive Training Aids to North America.

EdTech Global, a solutions provider of innovative EdTech products, and **AutoEDU**, the leading global provider of OEM-based automotive training aids, have formed a strategic partnership bringing **AutoEDU** products to North America.

Contact your local **AutoEDU** sales rep for more information about their innovative products. With the most comprehensive portfolio of training aids that support Hybrids to Electric Vehicles, Gasoline to Diesel, with products ranging from full functional automotive models to stand-alone training boards & simulators, electric vehicle training stands to braking system rigs and much more...**AutoEDU** is sure to have products for every automotive program. With clients in over 100 countries, **AutoEDU** is a true educational innovator that provides the most comprehensive and effective automotive training aids available in the market.

Need to find who your **AutoEDU** sales representative is? Go to **EdTech Global's** website and leave a note in the CONTACT US page, and your local **AutoEDU** sales rep will contact you to see how they can assist with your academic needs.

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