

**❖ IMAGE**

Image of equipment

**❖ OVERVIEW**

- **MOTO-TRAINER** is manufactured by DTDAuto technology team, Institute of Physics, Vietnam Academy of Science and Technology. Equipment is designed as a professional full set for the training about electronic, electric control system of modern motorcycles as starting system, charging system, ignition system, electronic fuel injection system and the other electronic systems in new generation motorcycles used for vocational schools.
- **MOTO-TRAINER** is training equipment is designed according to modern, perfect follow function module training standard. It provides all basic elements in common technique training such as Listening, Watching, Acting, live simulation, checking, diagnosing faults on computer.
- Construction of equipment is built on the real parts of electric system on new generation Honda motorcycles from 2010 to now.
- Sync use and including MOTODATA (using for looking up repair data on computer) and some professional check equipment as [IGNITION TIMING LIGHT](#), [AUTOSCOPE](#), [MOTOSCAN](#), [MULTI-METER](#)...
- Equipment can connect online with computer and diagnostic tool to read/erase faults, reset ECM/FI/PGM-FI, display current/ live data and active actuators for checking and repairs.
- **MOTO TRAINER** is designed, manufactured based on with the German vocational training equipment standard.
- Equipment has been used in training course of many years.

**❖ ADVANTAGES**

- Equipment is designed has many independent function modules, separate components. It simulates operating principles, construction of electric wiring and electronic control system on new generation motorcycles.
- Teachers and students can measure; check direct technical parameters or using computer, specialized check equipments.
- Especially, open design of equipment can assemble modules according to requirement of lessons (from basic to advantage, from simply to complex). User can compare/discriminate the resemblance and the difference between generations by methods, survey by professional measuring tools.
- Training software on computer. It supports electric wiring diagram information, basic technical parameters, images, survey charts, and animate lectures.

**❖ APPLICATION**

Used for electronic, electric system training in vocational schools about modern motorcycles.

**❖ FUNCTION**

- Equipment provides full pedagogical elements in technical training equipment.
- Equipment is built visually based on real spare parts of FI/PGM-FI motorcycle electronic, electric system of HONDA LEAD 110cc/125cc.
- Connect online, control, simulate, display, diagnose and train for contents as below:
  - + Basic electronic and electric technical in motorcycle repair
  - + Automatic control technical in structure and operation of new generation motorcycle
    - ▶ Electric supply system, charging system, safety starting system
    - ▶ Light system, alarming signal periodic maintenance instruction (Oil service soon)
    - ▶ Ignition system (CDI, TCI) electronic fuel injection (PGM-FI) include: intake air supply, fuel and electronic control generations
      - ▶ Integrated ECM system (STARTING, CHARGING, IGNITION, FI, ACG, IDLING STOP, HEAD LAMP...)
      - ▶ Diagnosis system (OBD On-Board Diagnostic) include: MIL Code, K-line, OBD-II
      - ▶ Digital odometer display system and digital odometer correction
      - ▶ Evaporation emission control system (EVAP)
      - ▶ Alternating Current Generator and starter (ACG)
      - ▶ Idling stop system
      - ▶ Engine operation optimum system base on altitude (ALTITUDE)
      - ▶ Immobilizer system and Immobilizer programming system
      - ▶ Safety system and warning system on new generation motorcycles
  - + Common faults on engine control unit (ECU/ ECM)
  - + Live data analysis technique in diagnosis, correction and repair complex faults using MOTOSCAN.
  - + Idle speed correction, fuel mixture rate and engine power of the electronic fuel injection system (PGM-FI).

+ Read/ Clear/Reset technique in ECU memory, analyze live data, active actuators using specialized diagnosis tool MOTOSCAN

+ Look up document, electric diagrams, specifications and repair instruction for motorcycles as: Honda, Yamaha, Piaggio, Suzuki, SYM by MOTODATA software.

+ Thinking, knowledge development about professional electronic repair technical, help students develops self-study habits in the next year.

#### ❖ COMPONENT

- 01 multifunction power supply unit
- 26 function modules
- 01 Cables unit and accessories
- 01 Heater
- 01 Small cylinder create pressure change
- 01 Scanner for motorcycles: [MOTOSCAN](#)
- 01 Software lookup motorcycle repair data
- 01 01 Tool measure electric pulse motorcycle: [AUTOSCOPE](#)
- 01 Electric measure tool: [MULTI-METER](#)
- 01 The light check ignition timing: [IGNITION TIMING LIGHT](#)
- 01 Tool test compression pressure inside the cylinder and fuel pressure: [P TESTER](#)
- 01 Tool edit EEprom data
- 01 Moto-Trainer 1.0 software
- 01 User guide
- 01 Computer (Optional)

#### ❖ OTHER PARAMETERS

- Voltage: 220VAC/50Hz, 12VDC/50A
- Weight: Approx. 70 kg
- Dimension: 1600 X 1900 X 600

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