

20 kW EV TRAINING BENCH

REAL COMPONENTS. REAL LEARNING. A GREENER FUTURE.

The Weldmart 20 kW EV Training Bench is a purpose-built educational platform using actual EV powertrain and vehicle control components. Designed for hands-on learning, it allows students to visually identify, measure, diagnose and understand the interaction between high-voltage, low-voltage and vehicle control systems.



IDEAL FOR
TVET & UNIVERSITIES



REAL EV
COMPONENTS



PRACTICAL
DIAGNOSIS &
TROUBLESHOOTING



SUPPORTS A
GREENER FUTURE

*Hands-On Training
for the Next Generation*

SYSTEM COMPONENTS & TRAINING FUNCTIONS



Traction Battery Pack

Battery/BMS, HV safety, SoC/SoH and energy-storage study



CCU / Charging and Distribution Unit

Charging and HV distribution concepts; labelled PTC / AC / BAT connections



PMSM Traction Motor

Motor construction, rotation, torque and traction-drive study



Motor Controller / Inverter

DC-to-3-phase AC conversion, control and diagnostics



VCU (Vehicle Controller Unit)

Vehicle operating logic and communication



BCM (Body Control Module)

Body/auxiliary control and network diagnostics



Auxiliary Battery and Fuse/Relay Distribution

Low-voltage supply, control wake-up and auxiliary loads



Driver Input Controls

R/N/D selector, accelerator pedal, brake pedal
Vehicle command inputs and interlock logic



Safety Inputs

Seat sensor, parking brake
Operator/vehicle state inputs



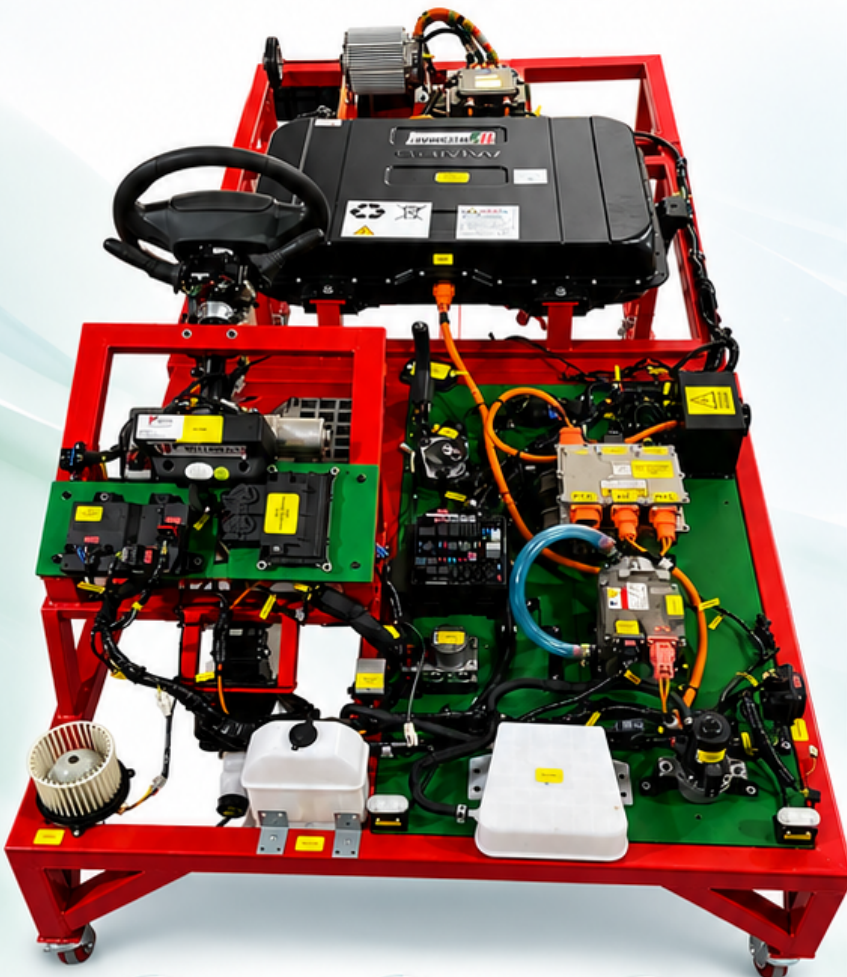
Auxiliary Systems

Electric vacuum pump, blower/fan, wiper-related hardware
Auxiliary load and control demonstrations



Operator Interface

Digital display / tablet interface and instrument controls
Observation of vehicle status and training demonstrations



REAL
HIGH-VOLTAGE
SYSTEM



HANDS-ON
PRACTICAL
LEARNING



INDUSTRY
RELEVANT
SKILLS

**TRAIN TODAY
FOR TOMORROW'S MOBILITY**



QUALITY
TRAINING EQUIPMENT



SALES & AFTER SALES
SUPPORT



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