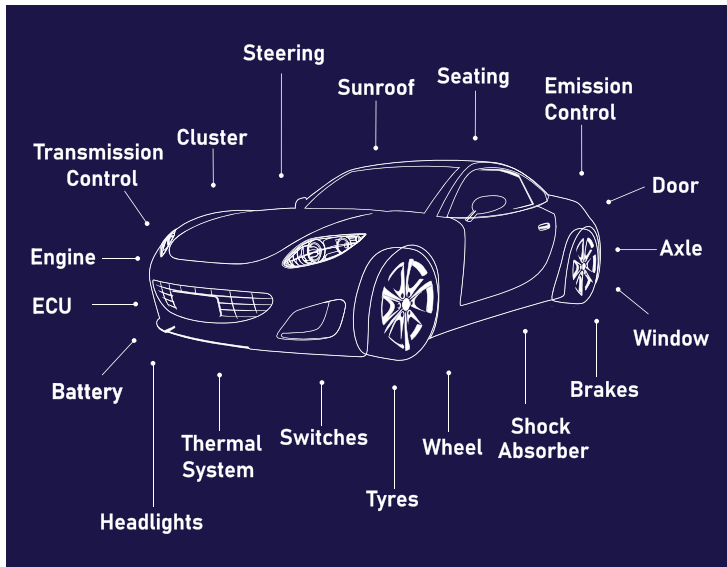


EV Portfolio Solutions



AUTOMOTIVE TEST SYSTEMS



- TMCS offers advanced engineering, turnkey, system integration solutions.
- We serve fortune 500 listed global OEMs, Tier1, Tier2 suppliers, Special purpose machine manufacturers with National Instruments (NI), PLC based solutions.
- TMCS integrates solutions with programming languages such as LabVIEW, TestStand, VeriStand, MATLAB and Opensource software, hardware platforms.
- Communication protocols like CAN, LIN are used for seamless integration.



OUR SOLUTIONS

Automated Test Equipment (ATE)

- Universal test bench
- Reliability testing
- Scalable systems

End-of-Line Test (EOL)

- Functional testing
- Performance testing
- Endurance testing

Hardware in Loop (HIL)

- Verification and Validation
- Flexible I/O Interfaces
- Fault Insertion

High Speed Data Acquisition

- Real time data monitoring and control
- Efficiency and effectiveness analysis
- Accurate and precise test results

Electromechanical Systems

- Modular, reconfigurable systems
- CE compatible
- Integrated safety features

Software Development

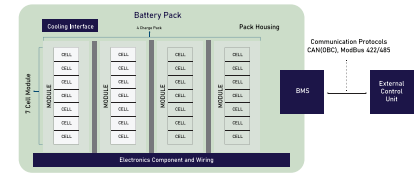
- LabVIEW, TestStand, VeriStand
- FPGA, RT
- Python
- Matlab
- Simulink

CASE STUDIES



ECU Test System

- Modular and CE compatible design
- Dual station for testing 2 Mn ECUs
- Cycle time achieved 52 sec for 40+tests
- High precision adjustable fixture



Battery Management System (BMS)

- Performance evaluation on single platform
- Reduced test cycle time
- Sensor simulation
- Safety features included



Axle & E-Axle Test System

- Adaptable for multiple types & variants of axles
- Variable input speed settings
- Provision of braking at wheels to check differential condition of axle
- Automatic adaptation of driving motor and axle



Steering Test System (HIL)

- High channel count data acquisition
- On road conditions simulations
- Communication protocols - CAN & other
- Real time data analysis for HPAS and EPAS
- Flexible test configuration
- Integrated use of LabVIEW, TestStand, VeriStand

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