Mobile Motor Test Bench (mMTB)

The compact way of testing motors and electronics.

In the development of motor applications, **flexible adaptations** to the control and **measurement options** are essential due to dynamic changes in conditions. The Mobile Motor Test Bench (mMTB) is a compact motor test bench designed to help developers **debug** and **verify** their **software and hardware** for embedded motor control applications in a standardized and functionally **safe environment**. Thanks to its **mechanical modules**, the mMTB can be quickly set up and expanded without compromising its high safety standards, even in workplace settings.



Rapid testing of motor control algorithms

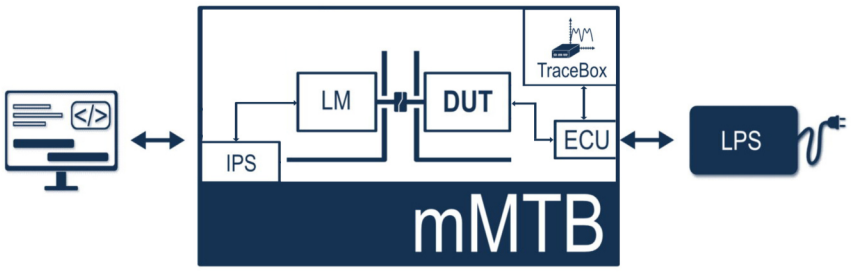
Compliance with safety standards

Real time data tracing

Compact & robust design

Setup

The mMTB is connected with the PC and combines the TraceBox, load motor (LM) and integrated power supply (IPS) in a safe development environment to test the device under test (DUT), which includes the motor and the electronic control unit (ECU).The mMTB is attached to a external load power supply (LPS) as well.



Your benefits

- Rapid verification of MCTRL algorithms & signal analysis
- Root cause analysis throughout the entire development phase
- Compact and robust design specifically constructed for office use
- Automated testing reduces verification effort
- Incorporated TraceBox for enhanced test bench functionnality

Safety concept

- Monitoring of the protection cover
- Foot pedal to stop in case of panic reaction during adjustment.
- Selector switch for safe use of the operating modes
- Electrical contact protection
- Comfortable transport due to carry handles
- Safety labelling for accident prevention and activity orientation

Key applications

- High functionality of control and measurement options
- Flexible data management ensures focus-specific result analysis
- Time synchronization via EtherCAT

Key features

- Load structure: 1x customer motor with 1x ECU
- DC voltage up to 60 VDC and current up to 50 A with a max power of 1 kW for test objects
- Optimal support during the development process
- Providing up to 768 W of continuous power for load motor

MOTEON GmbH
Ehrenbergstraße 11
98693 Ilmenau

Tel: +49 89 234 55700
E-Mail: info@moteon.com
www.moteon.com