



Mobil Motor Test Bench

Testing motors and electronics made simple and compact



Mobil MTB

The compact way of testing motors and electronics.

In the development of motor applications, **flexible adaptation** to the control and measurement options are essential due to dynamic changes in conditions. The mobile Motor Test Bench (mMTB) is a compact test bench designed to assist developers debug and verify their software and hardware for embedded motor control applications in a standardized and functionally safe environment.





Width: Length:

529.0 mm 926.0 mm

One mMTB for various use cases:



Use of customized Motor and Electronic Control Unit with the dynamic load

With its mechanical modules and diverse load profiles, the mMTB allows for quick setup and development of custom motor applications across various motor types. The mMTB has a power supply capable of voltages up to 60 VDC and currents up to 50 A, suitable for test objects up to 1 kW. Additionally, it provides up to 768 W of continuous power for the load motor.



Rapid verification of motor control algorithms & signal analysis

Flexible data management ensures result-oriented analysis. The acquisition and processing of controller-internal data takes place time-synchronously and with high realtime capability.



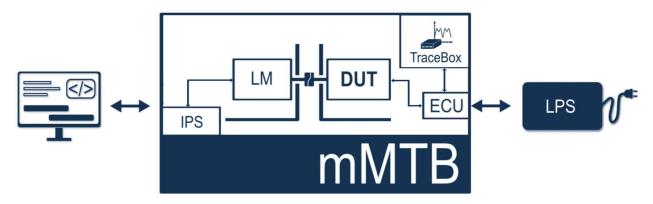
Specifically designed for office use



By using the mMTB at the developer's workstation, the developer has the opportunity to receive permanent feedback about his/her modifications and improvements, which accelerates the development process. Thanks to its compact and robust design, the mMTB conforms to the required safety standards and upgrades the development workspace to the next level.

mMTB 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). This latter includes the motor and the electronic control unit (ECU). The mMTB is attached to an external load power supply (LPS) as well.





Parametrics

Supply voltage Mobile MTB

Supply voltage DUT

Shaft speed

Operating temperature

Acoustic pressure level

Continuous power for load motor

230 VAC (max. 16 A)

Max. 60 VDC (max. 50 A continuous, 100 A peak, max. 1,000 W)

Max. 10,000 rpm

15 ... 40 °C

Max. 80 dB (A) on heavy load

Up to 768 W

Important notice

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