



TEST CENTER

Modern and flexible test benches for the most diverse test duties of your e-drive, hybrid drive or combustion engines.

DEVELOPMENT TEST BENCHES

With state-of-the-art measurement technology for e-drive, hybrid drive or combustion engines.

ENDURANCE TEST BENCHES FOR E-DRIVE APPLICATIONS

With dynamic air- and media technology for endurance and environmental tests of e-drives and e-axes.

COMBUSTION ENGINES

All known dynamic and stationary test procedures

POWERTRAIN TEST BENCH

For the testing of conventional, hybrid and pure electric powertrains.



Motor Emulation Test Bench

The Motor Emulation Test Bench simulates electrical motors to test drive inverters on a full power base without the need for mechanical setups.

This power-hardware-in-the-loop (PHIL) or “virtual dyno” provides numerous advantages compared to other inverter test means

- Inverter is not modified for test runs – originality saves time and supports safety testing
- No mechanical hazards, limitations or wearing out, which is typical for mechanical setups
- No real e-motor and dyno required (e-motor is a software model, no dyno control influences)
- Fast and easy change of the virtual motor characteristics
- Protection for the inverter under test via active phase current and power limitation
- Performance data:
Phase current AC: 800 [ARMS]
DC intermediate circuit : 1,000 [VDC]

Inverter Test Services on E-Motor Emulator:

- Functional Tests
- Hardware Verification
- Functional Safety Test
- Fault Stimulation
- End of Line

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