



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.



Synthetic Fuels - eFuels

Synthetic fuels / efuels offer a great potential for reaching global CO₂ targets when they are synthesised with the help of regenerative energy and CO₂ from the air and by applying admixtures to fossil fuels to power the existing car/truck fleet.

We at KST-Motorenversuch support you with the required competence and necessary testing technology to verify the potential of eFuels in your Portfolio. We also provide you with appropriate and highly specialised analysis and measuring systems with which our test benches can be modified according to the individual requirements or standards for synthetic fuels. This enables us to proof the effects and impacts on engine hard- and software with and without calibration changes. The verification of the long-term durability of engine, components and fuel-carrying systems are part of the solutions we offer.

EQUIPMENT (EXCERPT)

- Asynchronous machines for engine loads: up to 520kW (passenger cars), up to 800kW (commercial vehicles)
- Intake air conditioning
- Powerful cooling and conditioning units for lubricants

MEASURING SYSTEMS (EXCERPT)

- Exhaust gas analysis:
 - 5-component-AMAs
 - Particle counter
 - Microsoot sensor
 - FTIR Sesam
- Fuel measuring systems: Coriolis
- Cylinder pressure measurement: Indication systems to record the combustion process

RANGE OF SERVICES

- Measuring and technical support for your complete range of development activities up to vehicle testing
- Application technology available
- Emission tuning on testbench
- Emission homologation RDE tests (in cooperation with the TÜV)
- Chassis dynamometer tuning of exhaust emissions
- Individual fuel mixtures according to customer specifications
- Analyses for the verification of results in our on-site oil- and fuel laboratory

Contact

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