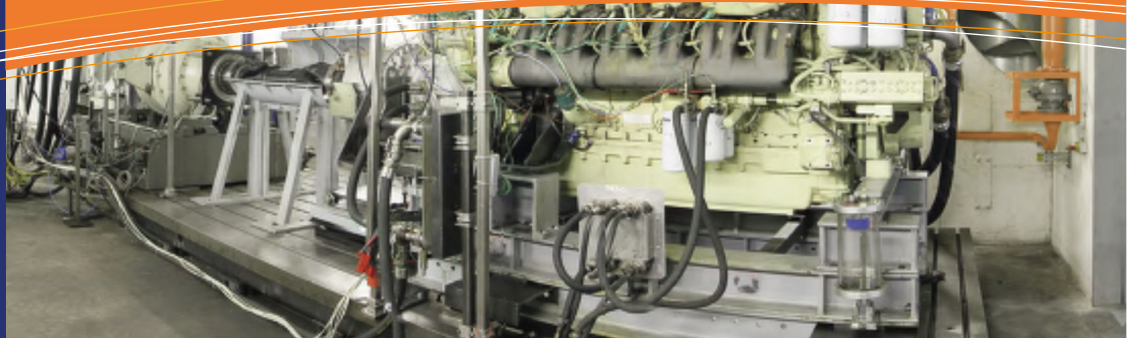


KST.

TESTING POWERTRAINS TO MOVE THE FUTURE



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.



Commercial Vehicle & Large-Bore Engines ICE and Hybrids

KSTs engine test field for commercial vehicle and large-bore engines is designed for applications up to a maximum of 4,000 kW (800 kW transient) and 60,000 Nm (in tandem configuration) – if required with sea water cooling. The test benches are supplied with all necessary types of fuels including natural gas and hydrogen. Beyond we support with the corresponding power supply for hybrid applications.

KSTs test benches dispose of high performance automation systems for all kinds of operating modes integrating external devices with standard interfaces / BUS systems. All customer formulations and specifications are directly available at the test bench.

EQUIPMENT (TEST BENCH INDEPENDENT)

- Intake air conditioning (humidity and temperature)
- Exhaust gas analysis and indication measurement systems
- Application tools
- Pressure-free supply of seawater cooling
- Natural gas supply
- Hydrogen supply H₂

TESTING SERVICES – DEVELOPMENT PROGRAMS

- Mechanical development and component testing
- Validation
- Durability testing
- Functional testing
- Parameterisation of exhaust aftertreatment systems
- Emission measurement and certification according to EUROPA – USA – JAPAN – CHINA-standards

TANK FARM

- LPG 8 bar / 20 bar - CNG 70 bar / 200 bar
- Natural gas up to 400 hPa, 650 Nm³ with online determination of calorific value
- Biogas simulation with CO₂ and propane
- Capacity for 20 different fuels
- H₂ 3,0 and H₂ 5,0 up to 70 bar

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