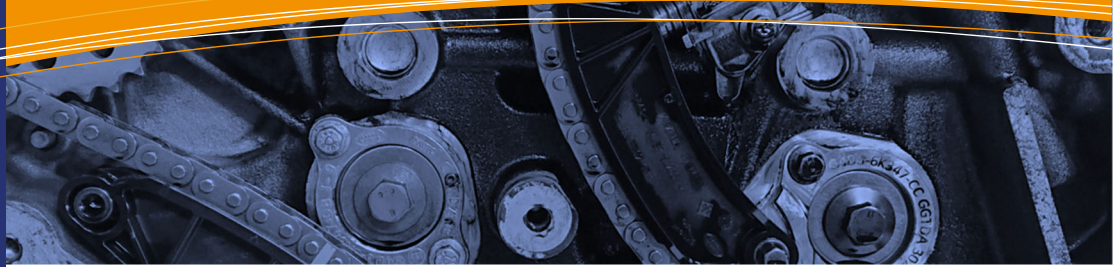


# KST.

## 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.



## Test benches for car combustion engines

For more than 50 years we act as an independent and solution-oriented test field and service provider. Since this time, we have been accompanying and advising our national and international customers. Our 200 highly qualified specialists work on 85 modern test benches of the most diverse power ranges 24/7, 365 days a year.

Due to our expertise, very comprehensive test and measurement equipment and our own workshop facilities we are always in the position to overcome your challenges.

### EQUIPMENT

- High dynamic performance up to 460 kW and 10,000 rpm
- Intake air conditioning
- INCA database, diagnosis- and DoE systems
- Road-Load-Simulation (RLS) for the simulation of operating cycles, including gear changes
- Exhaust gas analysis, particel count, particle mass, FTIR, EGR Rate
- Combustion analysis
- Early Stage Damage Detection
- Modal and operational vibration analysis
- Inhouse oil analysis laboratory
- Special measurements with up to 100 kHz
- All fuel types incl. LPG, CNG, Ethanol, H<sub>2</sub>

### SPECIAL DEVELOPMENT TEST BENCHES

- Low air temperature test bench down to -10 °C for complete engine or intake air
- Cold start test bench down to -40 °C
- Tilt test bench

### RANGE OF SERVICES

- Advice and realisation of your measurement tasks
- Component- and system testing
- Advanced setups / special measurements
- Development activities on sub systems and exhaust after treatment systems
- Thermodynamic tuning
- Analysis of friction and wear characteristics
- Lubricating system: oil circuit, oil consumption, oil dilution
- Resonance endurance test (continuous resonance operation)

### Your contact

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