ENGINE AUXILIARY TESTING

COMPONENT TESTING AUXILIARY DRIVES

YOUR GLOBAL MOBILITY ENGINEERING EXPERTS

In order to be able to test auxiliary drives realistically, it is necessary to apply both the rotational alternating accelerations, which result from the principle-related rotational irregularity of internal combustion engines, and the useful power to be transmitted as a load.

For this purpose, EDAG has developed test benches which apply these loads without the operation of an internal combustion engine and additionally enable environmental conditions to simulate operating conditions for different applications and environments.

In order to apply the loads to the test object realistically and according to your specification, we create customized test setups.

We have the right test facility for almost everything

Our laboratories are accredited according to DIN EN ISO/IEC 17025:2018. We carry out engine power take-off tests with customizable test benches according to ISO 9001.

EDAG Engineering GmbH
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An overview of our services

Testing of (ribbed-) v-belt, drive pulley and tension elements

- Construction and building of customer-specific auxiliary drives close to the vehicle (electric powered)
- Simulation of combustion engine rotational irregularities for different numbers of cylinders (alternating moments)
- Environmental simulations under the influence of temperature (high and low temperature tests), abrasive media use (dust, mud), water and salt water

Testing of Air conditioning compressors

- Refrigeration systems load units with R134a, R1234yf
- Load units close to the vehicle made from original vehicle components
- Testing of all belt-bound air conditioning compressors (magnetic coupling, swashplate, …)
- Temperature cycle tests & low temperature tests at up to -20°C in the test chamber

Testing of (starter-) generators

- LIN- & CAN-BUS simulation
- Variable braking torque
- Engine start simulation with defined holding torque at standstill
- Boost and recuperation studies