

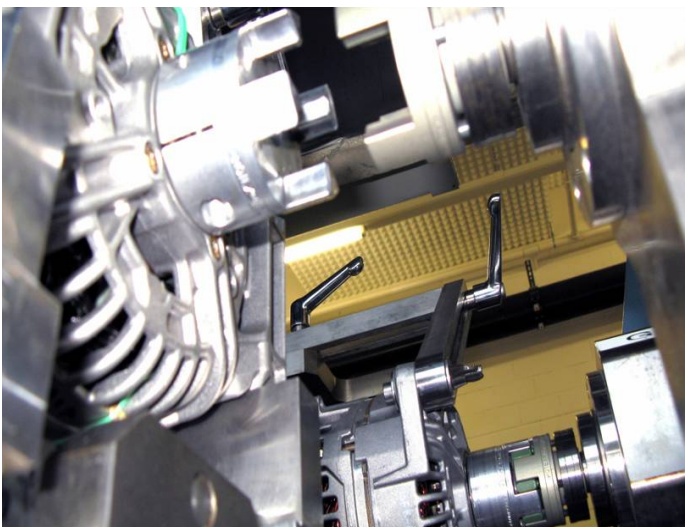
Bosch Engineering GmbH

Generator Test Bench



BOSCH

Invented for life



Generator Test Bench

For future power nets we support the innovative development. For this we have build in Abstatt an efficient test bench with the most modern measurement instrumentation, in which measurements can be executed manually or automatically.

Our Test Bench Services

- ▶ System analysis in electrical power net (charge balance, voltage stability, components)
- ▶ Validation of parameter and characteristic curves for generator models
- ▶ Competitor analysis, benchmarks
- ▶ Electrical simulation of high current consumer

Test Bench Facilities

- ▶ Power net replication with generator, battery, battery sensor and electrical loads
- ▶ Parallel operation mode for two generators
- ▶ Mounting of generators for passenger and commercial vehicles
- ▶ Mounting of air- and water-cooled generators
- ▶ Torque and rotational-speed measurement
- ▶ Reproducible drive cycles (FTP, NEDC, ...)
- ▶ Customer specific load cycles
- ▶ Automated control

Test Bench Data

- ▶ Engine: 100 kW
- ▶ Speed range: 0...20.000 U/min
- ▶ Tempering: -40 °C...+140 °C
- ▶ Temperature gradient: -3...+20 K/min

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Energy- and Communication
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(BEG/ESR1)

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