

Tailored environment



Here you will find
the **solution**

Your advantages

Application know-how is one of our strong points. We can provide you with solutions covering everything from the test concept up to interpretation of the results – all from the same source. Highly motivated staff convert your requirements into tests, tailored to your needs. Our proficient service team professionally prepares your vehicles for the tests. The innovative powers of the Bosch Group guarantee the permanent development of test engineering to meet the requirements of the future.

Our company

Bosch Engineering GmbH supports automobile manufacturers with innovative engineering services. We combine the agility and adaptability of a small company with the experience of the globally active Bosch Group. Bosch Engineering has a staff of some 600 experienced engineers.

Our program

Engineering services for the development of automotive systems in the following areas:

- ▶ Gasoline and diesel engine management
- ▶ Transmission-shift controls
- ▶ Bus systems and networks
- ▶ Test stand services
- ▶ Passenger restraint systems
- ▶ Braking systems
- ▶ Energy management
- ▶ Motor sport

The best route to the test center

The main offices of the Bosch Engineering GmbH are in Abstatt. The site is conveniently situated near to the Weinsberg autobahn junction around 40 km (25 miles) north of Stuttgart. You can reach us from the A 81, exit 11 (Heilbronn/Untergruppenbach). Simply follow the Bosch signposts.

Personal consultation

Our test center team would be more than pleased to inform you personally about Bosch Engineering GmbH and our test center, and to draw up a tailored quote. We look forward to your telephone call or to an e-mail from you.

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Bosch Engineering GmbH Individual vehicle dynamometer tests



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Tailored **test services** for your **vehicles**

Manoeuvring
area in the
cooling sector for
efficient vehicle
change



The filling
station has as
many as 20
different fuels
available



Capable engineering needs high-performance vehicle dynamometers

The adaptation and testing of complex functions demands inspection and test equipment which is characterised by continually increasing capability and performance.

We have set up a high-performance test center in Abstatt near Stuttgart which features state-of-the-art technology, and which can handle all vehicles irrespective of their power output. Here, as a service, you can take full advantage of test engineering facilities and comprehensive know-how all from one and the same source. Our services include vehicle preparation, the actual tests, calibration, and documentation.

The test center run by Bosch Engineering GmbH has been developed using the latest know-how. It is extremely versatile and already complies with the requirements of future emission standards.

Success is based on optimized sequences

The efficient sequences we apply to your measurement tasks are the consequence of our regarding the processes in their entirety. The precise measurement results and evaluations provide valuable information needed for the development and design of vehicles up to the highest performance class.

Typical applications

Emission tests

We can perform emission tests in line with all world-wide standards for gasoline and diesel engines:

- ▶ Emission analysis as per CVS method
- ▶ Particulate measurement
- ▶ Conditioning to -7°C , $+10^{\circ}\text{C}$, and $+20^{\circ}\text{C}$

Cold tests

We have test cells and roller-type chassis dynamometers for such tasks as starting, warm-up, or map parameterizing:

- ▶ Conditioning from -35°C to $+20^{\circ}\text{C}$
- ▶ Up to 300 kW all-wheel drive
- ▶ Up to 260 kW front-wheel drive/rear-wheel drive

Power-output tests and map parameterizing

For optimization, calibration, component testing, and power-output tests we have roller-type chassis dynamometers available:

- ▶ Up to 400 kW rear-wheel drive/all-wheel drive
- ▶ Up to 220 kW front-wheel drive
- ▶ Airstream fans with up to 250,000 m^3/h
- ▶ Cooling capacity on the test stand up to 1 MW

Common features of our test stands

- ▶ Universally applicable all-wheel-drive concept
- ▶ Option of front-wheel drive and rear-wheel drive
- ▶ Two untreated-exhaust-gas analyses on all test benches
- ▶ Driving cycles per request or as required by regulations
- ▶ Airstream fans for up to 250 km/h
- ▶ Overrun capable dynamometers

Our infrastructure for complete services

- ▶ Workshop
In this fully equipped workshop, our highly experienced staff prepare your vehicles professionally for the various tests. Your predefined specifications in addition to requirements for the desired test formulate the ground work.
- ▶ Customer workshop area
For our customers we provide secured workshop areas which have their own entry control and sight protection.
- ▶ Fuel supply
In our test area we always have a selection of up to 20 different fuels available. These range from the fuels obtainable at commercial filling stations up to certification fuels and special blends. Your vehicles can be filled with fuel and emptied on the test stands.