



Impact testing equipment in the mechanical laboratory

QM system for testing and calibrating laboratories

Testing laboratory at Buderus Edelstahl GmbH receives DAP certificate of competence

The German Testing Accreditation Agency (DAP) concluded its successful accreditation of the testing laboratory at Buderus Edelstahl GmbH in Wetzlar in May 2008. The review covered the form of organisation and the competence of the staff, as well as the laboratory plant and equipment.

Our laboratory staff



Accreditation assures customers and end-users that inspection and testing procedures are in line with the state of art and science, ensuring sound, reliable test results. The testing laboratory is engaged principally by Buderus Edelstahl GmbH and its sister companies Buderus Edelstahl Band GmbH and Buderus Edelstahl Schmiede-

The accreditation certificate



technik GmbH. Both the latter companies are certified suppliers to the automotive industry, so accreditation of the testing laboratory is particularly important for them. It is a significant technical and scientific challenge to ensure reproducibility of the testing data, which is essential for functional quality assurance.

The testing laboratory undertakes classic material testing of metal materials to international standards, including tensile tests, notch impact tests, hardness tests (e.g. HB, HV, HRC), microscopic cleanliness tests as well as microstructure, grain size and damage inspections, dilatometer tests and recording characteristic values (KIC) for component mechanical fracture assessments or impact force tests to ZF works standard ("Brugger samples").

There are 10 laboratory furnaces available for heat treatment testing. The laboratory has modern test equipment and image analysis systems, and committed, experienced staff, to ensure its technological competence. The contacts in the laboratory are Holger Wörner and Uwe Siebert, who are also carrying forward the laboratory's ongoing development. They are available to advise the employees of the Buderus companies on the Wetzlar site in all matters relating to materials testing.

Buderus Edelstahl GmbH test laboratory:

Accredited to ISO/IEC 17025:2005 "QM system for testing and calibrating laboratories" (DAP-PL-4090.00). The scope extends to metallographic and mechanical/technological testing of metallic materials, and comprises about 40 national and international test standards. The accreditation is valid until May 2013.



*Surface measurement of cleanliness samples
Using the 400 kN tensile testing machine*

