

Crashtest-service GmbH

Crashtest-service GmbH is your service provider, when it comes to crash tests for accident reconstruction or standard crash tests. As an accredited test laboratory, at our 30,000 m² crash test facility, we realistically reconstruct road traffic accidents or carry out tests on vehicle restraint systems, counter-terrorism systems and supporting structures for road traffic on the basis of standards regulations.

Founded in 2001 by the engineering office Schimmelpfennig + Becke, crashtest-service has developed into a leading competence centre for accident reconstruction. In addition to performing individual and standard crash tests, the company has the world's largest crash test database for accident reconstruction. More than 9,000 crash tests are available for the visual comparison of accident damages. Moreover, the company offers, in cooperation with Accidenta GmbH, the technical, medical and legal analysis of road traffic accidents with regards to the settlement of claims.

Furthermore, crashtest-service GmbH produce the Biofidelic crash test dummy. When it comes to the most precise reconstruction of motion sequences, damages and injuries, the Biofidelic crash test dummy is used. These Biofidelic crash test dummies are constantly being developed in cooperation with the HTW Dresden and the TU Berlin under the supervision of Prof. Dr. Lars Hannawald, Dr. Michael Weyde und Prof. Dr. Florian Kramer and are produced using the latest state of the art technology in a specially designed dummy laboratory at crashtest-service GmbH.

Based on the extensive technical infrastructure, crashtest-service also supports in various technical developments and complex questions, such as the development of telematics systems, FEM calculations or photometric evaluations.

A wide range of expert seminars and training on accident reconstruction, as well as the possibility to use the crash test centre as an event location, round off the range of services offered.

Crash test facility

At the 30,000m² test facility, individual and standard crash tests are quickly and flexibly performed. Tests take place on the three separate acceleration tracks with distances up to 300 m. All vehicle classes, whether cars, motorcycles, bicycles or heavy-duty vehicles (standard up to 70 t), can be tested at speeds of up to 170 km/h. Regardless of the weather conditions, crash tests can be performed in our indoor crash test facility at speeds up to 65 km/h. Due to this variance, technical highly complex crash tests can be implemented at short notice.

Crash tests

How was the accident sequence? How and what damages were incurred? Crashtest-service answer these questions competently and quickly through the precise reconstruction of the accident. As a result, customers receive complete digital documentation of the crash test, which presents the true accident in a clear multimedia format and is interdisciplinary comprehensible. Before and after photos, crash videos and graphically prepared measurement data permit a reliable assessment of the accident and the incurred damages through visual comparisons, i.a. for courts, insurance companies and experts.

As an accredited test laboratory, since 2013 the company also specialises in performing crash tests on vehicle restraint systems. These include:

- Safety barrier tests (e.g. concrete and steel) in accordance with EN 1317

- Examination of supporting structures in road traffic (e.g. road traffic signs, light poles, traffic light systems, speed measuring devices) in accordance with EN 12767
- Tests with vehicle security barriers (e.g. bollard, barriers, wedges) in accordance with PAS 68, ASTM F2656, IWA 14-1
- and many others

Crash test database

The crash test database comprises of more than 9,000 professionally prepared and verified tests, which illustrate nearly all conceivable road traffic accident situations and consequences. Accident specific crash data can be quickly determined using the intuitive search engine and can be downloaded immediately after purchase. Experts, courts, police, or insurance companies are provided with the continuously updated and well-maintained database a highly effective tool for the accident analysis.

Besides the data of crashtest-service, the database also includes crash tests of cooperating companies and institutes such as ADAC Germany, Stiftung Warentest (German product testing foundation), Allianz Centre for Technology, ARC-Network (USA), AXA-Winterthur (Switzerland), Dynamic Test Center (USA) and many others.

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