



Benefit from our various services in the domain of accident reconstruction and crash test.



CTS offers a variety of different services. Based on our skills in the field of accident reconstruction and crash testing we consult your product development in respect to security aspects. Therefore a variable crash test facility is available as well as modern software tools for FEM calculations. We can carry out seminars, conferences and events with up to 200 participants in the new crash test center.

Crash test seminars

- Live crash test
- Training for employees
- Impressive issue for your guests
- Training for firefighters, police, emergency services
- Information for schools, driving schools, universities, courts, experts and lawyers

FEM construction

- Three-dimensional presentation and calculation of complex construction and motion
- The virtual prototyping is the economic key for the engineer. We offer a fast and competitive part analysis.
- Static analysis (construction failure)
- Dynamic analysis (weak spots)

Digital tachograph: downloading and analysing data

Luminance Measurement Analysis for photos of digital cameras and simulation and evaluation of realistic luminance situations

Consulting of industry, experts and insurances about passive safety and accident reconstruction

Media

- Reportages, science magazines, test reports



Services

crashtest-service.com

**Crash tests
Database
Services**

crashtest-service.com GmbH
Amelunxenstraße 30, 48167 Münster, Germany
Phone: +49 (0) 2506 70 990 70
Fax: +49 (0) 2506 70 990 99
E-Mail: info@crashtest-service.com
Web: www.crashtest-service.com



We carry out **crash tests** according to your individual specifications and requirements.

CTS conducts crash tests since more than ten years. We are able to perform almost all types of accidents involving a large selection of collision objects on our highly flexible crash test facility. The track of our new crash test center is 260 meter long and allows speed up to 150 kph. In the middle of the track there is a 70 x 70 meter crash area for collisions with different impact angles. On the 13,000 square meter area various accidents can be simulated. The 750 square meter indoor facility allows weather independently crash tests with more than 65 kph.

- ✦ Accident reconstruction tests for courts, experts and insurances
- ✦ Crash tests with two-wheelers, cars, trucks, agricultural vehicles, trailers and much more
- ✦ Tests with dummies (humans and animals)
- ✦ Airbag
- ✦ Perception of collision (hit and run accidents)
- ✦ General liability claims, insurance fraud
- ✦ Tests of accidents with mechanical devices
- ✦ Product liability
- ✦ Barrier impacts in respect to ECE regulations and FMVSS
- ✦ Driving tests
- ✦ Testing of load security (VDI 2700)
- ✦ Safety rules for construction and installation of lifts (EN81-1 and -2)
- ✦ Energy absorption of structures and deformable elements
- ✦ Safety testing of special purpose vehicles
- ✦ Sled testing of vehicle parts ("city crash", DIN 75302, ECE-R80)
- ✦ Operational safety of mechanical machines
- ✦ Development of new test procedures
- ✦ Tests during preliminary development



Crash tests



The **crash test database** on the internet for experts, insurers and accident research

The database with more than 4.700 tests offers you individual combination options here to guarantee realistic EES and vehicle-vehicle tests reflecting the wide range of accidents conceivable in road traffic accident situations. Besides our tests you will find tests of ADAC (D), Allianz Zentrum für Technik (D), ARC-Network (USA), AREC (EU), AXA-Winterthur (CH), NHTSA (USA), Dynamic Test Center (CH), DSD (A), Stiftung Warentest (D) etc.

What you can get from the data base:

- ✦ EES tests
- ✦ Crash tests with bicycles, motorcars, trucks, agricultural vehicles, trailers, etc.
- ✦ Crash dummies (simulating humans and/or animals)
- ✦ Airbag tests
- ✦ Acoustic pressure level measurements
- ✦ General liability insurance damage
- ✦ Speeds, EES values, Delta v values, etc.
- ✦ Pictorial material on vehicle damage, final positions, etc.
- ✦ Video documentation in PDF or AVI formats
- ✦ Diagrams and measurement sketches

Effective use of crash tests:

- ✦ Obtain easily understood crash test data using your specifications that can be used as evidence in a court of law.
- ✦ Rapid, well-founded determination of important collision parameters such as speed, speed change, damage compatibility, etc.
- ✦ Visualisation of analysis results
- ✦ Alternative to lengthy calculations
- ✦ Convincing arguments that support expertise
- ✦ Avoidance of long discussions
- ✦ Minimization of complex verbal descriptions of technical matters

Internet data base