Dynamic Rollover Crash Test System

- Uses control and propulsion of your existing high speed crash facility
- Build up and take apart in less than 8 hours
- Programmable steering robot for dynamic maneuvers
- Vehicle preparation on ground level (working safety)
- Emergency braking up to 50 km/h
Dynamic Rollover Crash Test System

System Description

The Microsys Dynamic Rollover Crash Test System is designed to reproduce real world rollover events. It is used for R&D purposes in pre-development projects as well as for algorithm development for rollover sensing in the development process.

The flexible design of the Microsys Dynamic Rollover Crash Test System guarantees a very good reproducibility of the single rollover event. This high accuracy allows to investigate and improve the behaviour of vehicle and dummies in an iterative process.

A programmable steering robot comes with the system to control dynamic steering maneuvers.

The rollover test system is designed for 4 different load cases:
- Slope Rollover
- Curb Strike Rollover
- Cork Screw Rollover
- Sand Pit Rollover

Watch the entire movie at:
http://www.youtube.com/watch?v=20e3XFR9hSY

In the shown example the Microsys Dynamic Rollover Crash Test System is integrated and propelled by a Messring crash facility. It is possible to refit the Microsys Dynamic Rollover Crash Test System to existing crash test equipment of all known brands.

System Performance

- Vehicle mass: max. 3000 kg
- Maximum speed: 50 km/h
- Emergency braking speed: max. 50 km/h

Basic System Dimensions

Load Cases & Launcher Type

Slope Rollover  Sand Pit Rollover

Cork Screw Rollover  Curb Strike Rollover

Control System & Data Analysis

The Microsys Dynamic Rollover Crash Test System is fully controlled by the original crash facility control system, which reduces the time and cost for training of technical personnel.

Certified Quality

The Microsys test system is certified by TÜV and will be delivered with the CE mark.
To ensure the working safety and comfort of the technical staff preparing the test, the vehicle can be prepared on ground level and is automatically elevated to the starting height of the slope rollover.

As a full-range provider of engineering, simulation, testing and tools for safety development we speak exactly your language. This understanding can be felt in all our products and services. The team of Concept Tech and Microsys, part of the Altran group, provides you with expertise and support worldwide.

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