



Functional Description

The Pole Test System enables Pole- Tests regarding the regulation of FMVSS 201. It will be accelerated via an on site from customer provided rope- pull acceleration facility. The Concept Technologie's Pole Test Facility consists of four trolleys for connecting with one wheel of test vehicle. The sled- frame is connected with both rear trolleys and transmits the driving power. After acceleration both rear trolleys will be disconnected via mechanical Release Device. So the test vehicle will be driving 1.5 m in a free guided motion towards the pole. In case of emergency braking the car will be braked via both rear trolleys coupled with the rope acceleration mechanism.

Due to this unique solution it is easy possible to provide pole tests regarding FMVSS 201 on a standard crash tests facility.

FROM USER TO USER

As a user and system developer, we offer our customers our know-how.

Your Benefits at a Glance

- ✓ Avoidance of not valid tests due to high accuracy to meet the target of +/- 15 mm
- ✓ Cost Saving due to particular Concept-Construction with our User- Knowledge
- ✓ Small set up time due particular Concept-Construction

Concept[®] - Pole Test Facility FMVSS 201



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Technical Insight

- Pole Diameter: 254 mm (10in.)
 - Impact velocity: max.30 km/h
 - Impact Angle: 90°
 - Impact accuracy: ± 15mm
 - Pole overall height: on request
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- Max. vehicle mass: 2.000 kg
 - Max. wheel base: 3.500 mm
 - Min. wheel base: 1.500 mm



Technical Description

All **Trolleys** are designed as a welding construction made of profile- steel. On each trolley four wheels are mounted which can be changed very easily in case of maintenance.

The **Sled- Frame** is made as a welding construction made of profile steel. In the Sled Frame Retaining- Hooks are installed which will be released via the Release Ramp on the Rail. A lateral guidance for the Sled- Frame is guaranteed by 2 outer sled wheels. An additional Guide Bead on the Sled Frame avoids removal during the circumstance of emergency brake.

The **Pole** is fixed on the crash block via screws. For

