

# Concept<sup>®</sup> - Barrier Trolley



## Functional Description

This from Concept developed side crash barrier trolley is mainly deployed to perform tests according to ECE R95 and 96/27 EG and can be modified to cover the legislative ECE – R 34 as well.

The aluminium impact plate in the front of the barrier is adjustable in the range of 100mm.

If there are cameras, measurement technique etc. mounted as a matter of course mass compensation will be in progress. During the construction the position of the centre of gravity have been carefully borne in mind.

**This barrier developed by Concept Technologie provides in addition the opportunity to apply with Supra- Light Load Cells on the front.**

## FROM USER TO USER

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

### Your Benefits at a Glance:

- ✓ Easy to handle and reducing of investment costs due to the integrated mounting fixture for superstructural parts like cameras, trailing cable etc.
- ✓ Reducing of investment costs due to the simple retooling of the barrier regarding ECE – R 34.
- ✓ High flexibility and reducing of investment costs for example because of the opportunity of applying Load Cells on the front.

## Technical Description

### Requirements ECE-R95:

Impact Angle:	90°(Side Crash)
Impact Velocity:	50 km/h
Mass:	950 kg ± 20
Face Width (front/rear):	1.500 mm ± 10
Ground Clearance:	300 mm
Height:	800 mm
Wheel Base:	3.000 mm ± 10

### Supplementary Products:

#### a) Further barriers:

As a matter of course Concept Technologie would offer you further barrier trolleys as follows:

- FMVSS 214
- FMVSS 301 old/new version
- IIHS Side Crash
- ECE R 32
- ECE R 34

#### b) Mobile Load Cell Wall

As a result of the light masses of the stamps of < 3 kg to a max. load capacity ca. 110 kN it is still possible to get reproductions of the force with a high resolution during the testing.

With the opportunity of this high resolution of 20 kHz it is possible to get a transparency of the crash time history and force distribution.

