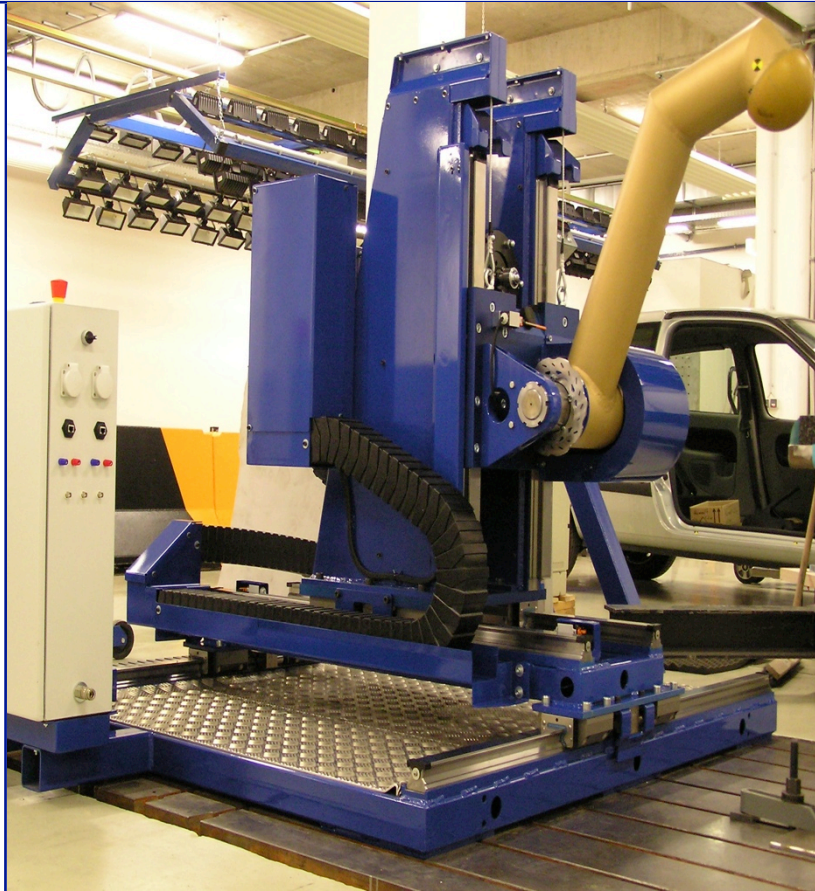
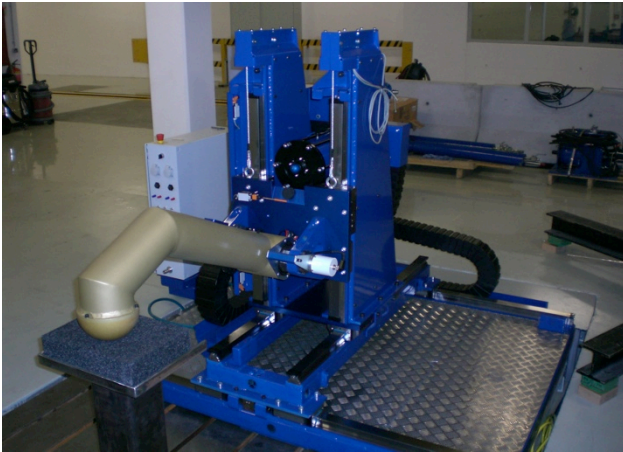


# DSD

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## **Pendulum Impact** Test Device



### Components

The components of this test device are the following:

- The pendulum impact rig
- The acceleration cylinder
- The control system

### How it works

The pendulum rig is positioned using the three moveable axes to the target point. The pendulum is accelerated with a force free acceleration cylinder. By measuring the accelerations of the impactor the load on head and components can be determined.

- Working medium:** air  
**Supply pressure:** 8bar  
**Test speed:** 10 - 30km/h  
**Accuracy:** accord. ECE R21 (<+/- 2.5%)  
**Pendulum mass:** 6,8kg  
**Hit angle:** -15 up to 75° (0° - horizontal)  
**Total weight:** 1.300kg

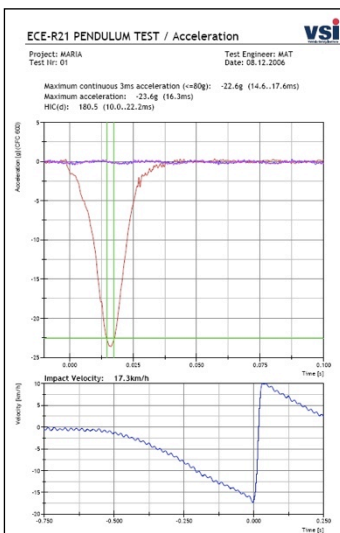
### Motivation

The motivation for developing this type of pendulum impact rig is the requirement have a flexible but compact test rig. With these pendulum impact rig it is possible to meet the regulations of ECE-R21, ECE-R17, ECE-R25 and FMVSS 201 as well as to perform validation and material tests.



### Advantages

- High repeatability
- Simple adjustment
- Cost efficient
- V-Matrix
- Easy positioning
- Can be operated by a single person
- Easy transport between different locations
- Integrated switch board (incl. measurement)



### Test report

- DIADEM report is generated automatically
- Acceleration versus time
- Customers options are simply realizable

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