Automotive Engineering

1. Testing Facilities (Components)



Wind Tunnel

Modular wind tunnel (Göttingen design), which is used in conjunction with a PIV system to verify of flow simulations (FLUENT). Therefore a particle generator is available for particle injection into the flow.

• Wind tunnel: Length: 3m x Height: 1m x Channel width:

200mm

Measurement Cell: L: 700mm x H: 100mm x W: 100mm



Tire Test Stand

- · Development of tire testing equipment
- · Visualization of tire vibrations
- · Recording of any kind of tires
- One or two roller supporting the tire
- · Adjustable static radial load
- · PC-controlled speed control
- · Visualization of tire contact surface



Vibration Testing System

TIRA TV 50350-120

Examination of component vibrations and durability

Specifications:

- Rated Power: Sine: 2700 N; Shock: 4000 N
- Swing path max. 25.4 mm
- · Sample weight up to 25 kg



