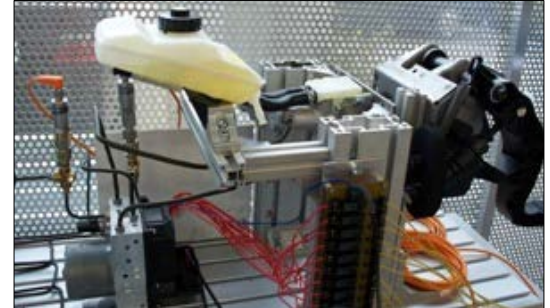## Hardware-in-the-Loop Test Stand

Test stand for the investigation of algorithms developed for anti blocking systems (ABS), electronic stability programs (ESP) and other driving safety systems.

- Hardware: Main brake cylinder, four Wheel brakes, hydraulic control
- Hydraulic control unit (HCU) follows control strategies implemented in MATLAB / Simulink using a dSpace interface

## Servo-hydraulic Test Stand (Hydropulser)

Static and dynamic testing of assemblies and parts

**Specifications:**

- Compressive force: $F_{max} = \pm 25$ kN
- Amplitude: $s_{max} = \pm 125$ mm
- Frequency: $f_{max} = 100$ Hz
- Acceleration: $a_{max} = 300$ m / s²
- Operating modes: force-controlled or length-controlled