

# DURABILITY TEST LABORATORY

Durability Test Laboratory is designed and developed to test different suspension system components with respect to the OEM or supplier specifications or Road Load Datas. Test system frequency can be adjusted and also different types of actuators can be used by one single controller. Leaf, coil springs, shock absorbers, lower control arms can be tested.



## TESTING SUSPENSION SYSTEM COMPONENTS

- LOWER CONTROL ARMS
- LEAF
- COIL SPRINGS
- SHOCK ABSORBERS

### SYSTEM FEATURES

- Servo-hydraulic and electro-mechanic actuator options
- 0-400 Hz servo hydraulic system control frequency
- Position and load control options
- Multi-channel control
- Acceleration signal monitoring
- Special user interface
- Amplitude compensation
- Offset compensation
- Up to 16 channel force & displacement control
- Adjustable analogue outputs
- Test scenarios via test file
- Road load data simulation

### CONTROLLER & SOFTWARE

- 19" rack cabinet chassis
- Up to 16 hydraulics actuators / different test setups
- Configurable input / output channel numbers and specifications
- Stable and consistent 10 kHz real-time PID control architecture
- High-frequency control and data logging applications



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