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for Technology Leaders

# SIMPACK

# Automotive

## APPLICATION

**SIMPACK Automotive** is an add-on module tailored to the specific requirements of the automotive simulation sector.

## Applications

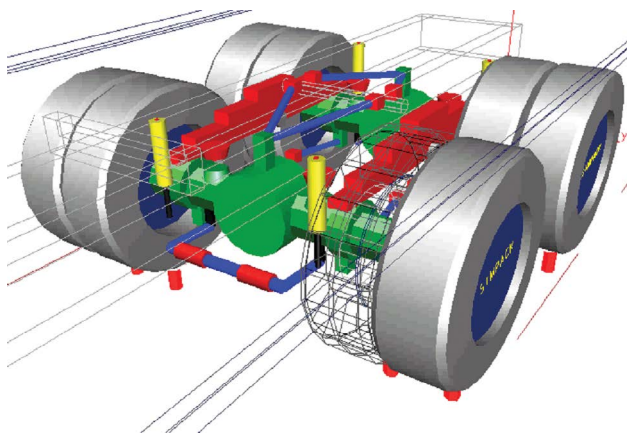
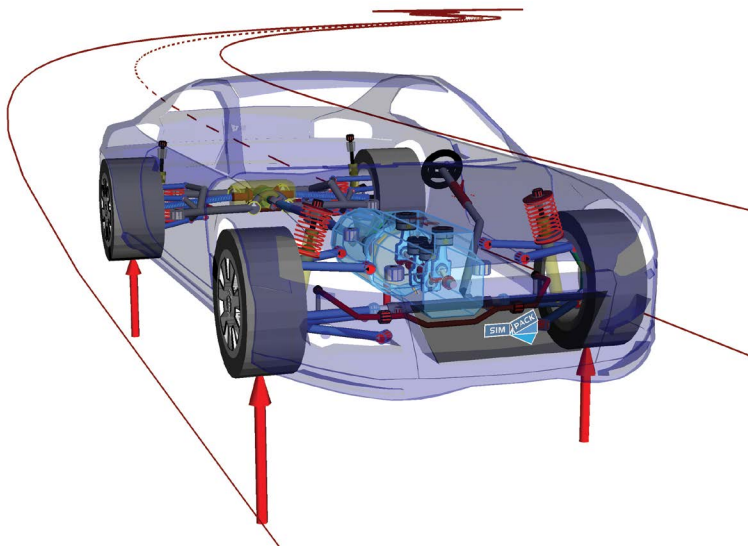
- Passenger cars, trucks, busses and land machinery
- People movers and motorcycles
- Complete system analyses with component based sub-system models
- Handling, ride and NVH analyses
- SiL, HiL and MiL applications
- Stress and durability
- DoE and optimization

## Highlights

- Unlimited modeling flexibility
- Extreme non-linear system behavior
- Analyses in the frequency and time domain
- Fully parameterized highly detailed automotive database for all typical suspension/driveline types available
- Scalable detail and complexity
- Batch jobs and automatic report generation
- Interfaces to third party software (CDTire, Delft-Tyre, FTire, TMEasy)

## Features

- Frequency and amplitude dependent force elements (dynamic bushing/hydrmount)
- High fidelity drivetrain elements
- Detailed air spring models
- Beam based leaf springs with contact and friction
- Flexible body generation within SIMPACK
- Importation of flexible bodies from FEM codes
- Easy implementation of user specific code



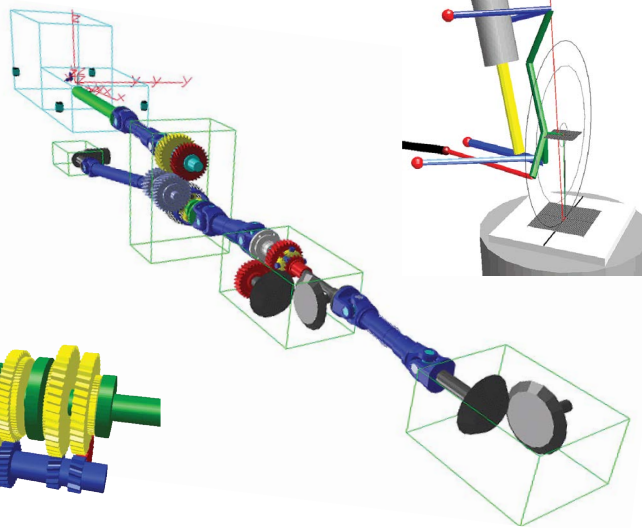
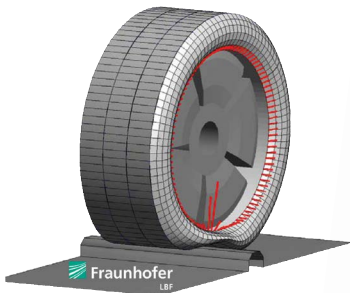
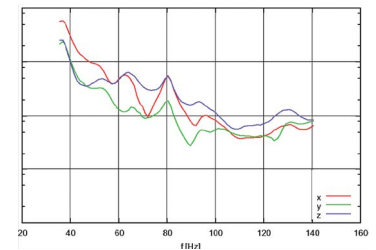
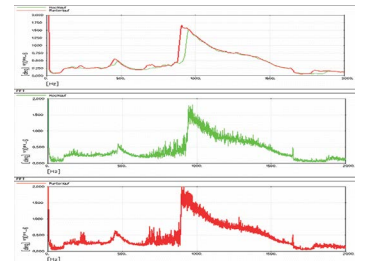
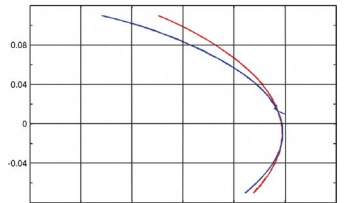
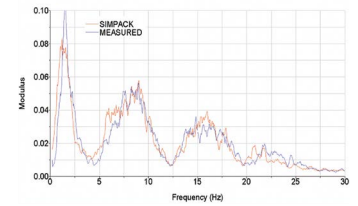
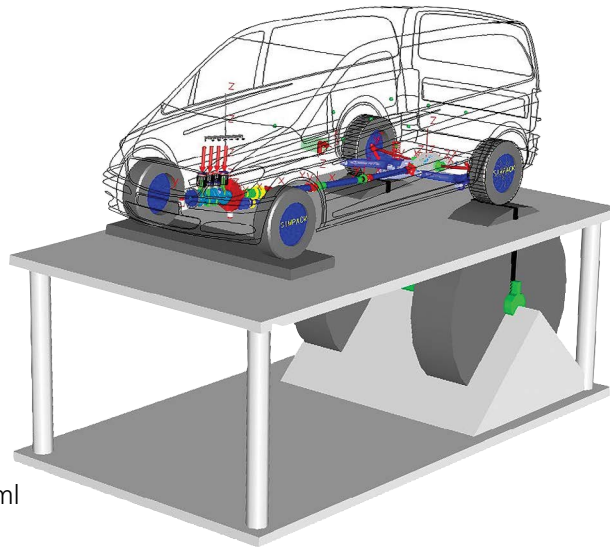
### Interfaces to

- CAD software
- FEM software
- Control software
- Fluid dynamics software
- Fatigue analysis software
- Optimization tools

### Operating Systems

- Windows and Linux.

See: [www.simpack.com/platforms.html](http://www.simpack.com/platforms.html)



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