



Accurate · Fast · Robust · Versatile

# SIMPACK LAND

## Application

### What is SIMPACK?

SIMPACK is a general-purpose multi-body simulation (MBS) software tool which is used to aid the development of any mechanical or mechatronic device, ranging from single components through to complete systems (e.g. road and railway vehicles, wind turbines and high performance Formula 1 engines). All SIMPACK products are 100% compatible.

SIMPACK Land is a collection of functionalities suitable for the simulation of mobile land machinery.

### Applications:

- Simulation of any mobile land machine
- Kinematic and dynamic simulation
- Handling, stability and comfort analysis
- Geometric and material modification
- Optimization
- Stress and durability
- Software-in-the-loop simulation (SiL)
- Real-time Simulation, HiL/MiL

### Highlights:

- Virtual prototyping and testing
- Complete system behavior
- Unlimited flexibility
- NVH, shock contact
- Database technology
- Scalable detail and complexity
- Batch jobs
- Automatic analysis reports



## Features:

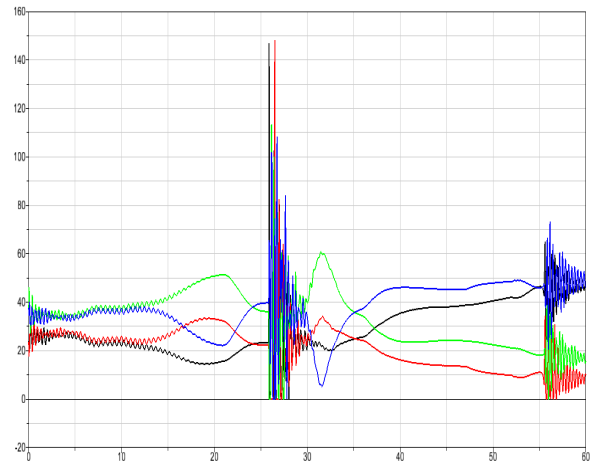
- Tire models suitable for off-road vehicles
- Stochastic and measured road/terrain surfaces
- Open and closed loop control
- Importation of flexible bodies from FEM codes
- Multiple contact models
- Easy implementation of user specific code

## Interfaces to:

- Control software
- CAD software
- Hydraulics and pneumatics
- FEM 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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