

# SIMPACK Automotive

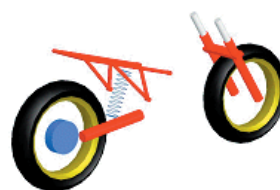
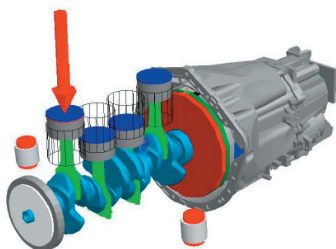
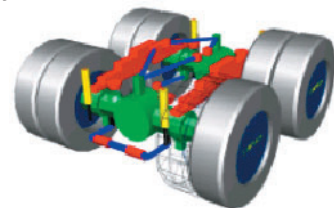
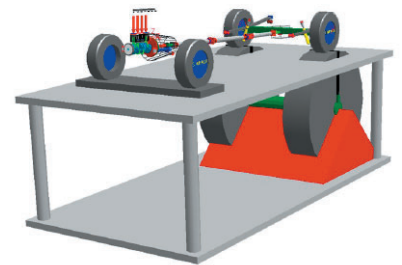
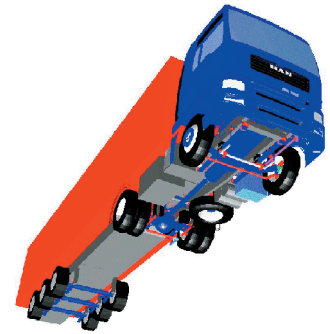
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## SIMPACK Automotive

Automotive is an add-on module to SIMPACK. Accurate and reliable vehicle models may be created quickly and easily by using specialised modelling elements, as well as pre-defined and parameterised model components.

SIMPACK Automotive is the preferred choice among high-end MBS users within the world's leading automotive companies.





## SIMPACK Automotive

### Model Set-up

- Pre-defined substructures for automotive components:
  - suspensions
  - chassis
  - steering systems
  - drive lines
  - many more
- Full parameterisation and consequent separation of model structure and parameters
- Tyre models available:
  - Pacejka Similarity and Magic Formula, HSRI
  - MF-Tyre by TNO
  - RMod-K 7.0 by gedas
  - Interfaces to additional tyre models
- Roads, aerodynamics, etc.
- Simple driving manoeuvre definition
- Driver model

### Calculation Tasks

- Simulation of components and entire vehicles
- Applications in ride&handling, NVH and durability
- Best-in-class simulation performance, especially for complex models

### Miscellaneous

- Full compatibility to any other SIMPACK module
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- Strong interfaces to FE-tools and to MATLAB Simulink
- Optimised for SIMPACK Virtual Testing Lab ("design of experiments")

## SIMPACK products:

- Basic Module  
Kinematics & Dynamics
- Add-on Modules  
Automotive\*, Wheel/Rail, CONTROL, USER, Symbolic Accelerator, Code Export, SIMBEAM
- Add-on Interfaces to CAD: CATIA V4, Pro/ENGINEER, I-DEAS
- Add-on Interfaces to FEM: ABAQUS, ANSYS, I-DEAS, MSC.MARC, MSC.NASTRAN, PERMAS
- Add-on Interfaces CONTROL: MATLAB Simulink, AMESim

## SIMPACK available operating systems:

- Silicon Graphics Workstation with IRIX
- Personal Computer with Windows 2000 and XP
- Hewlett Packard Workstations with HP-UX
- IBM Workstations with AIX
- Linux (Red Hat)

For further information or an in-house demonstration please contact

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