

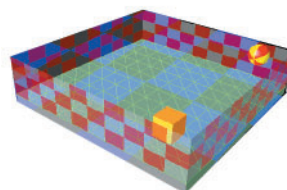
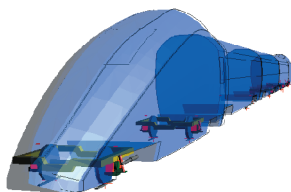
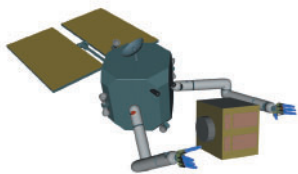
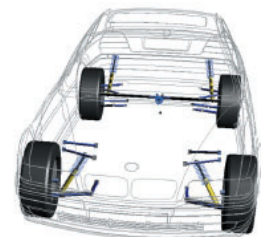
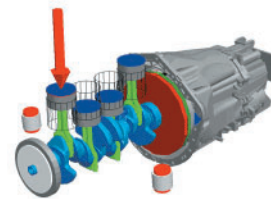
# The Heart of SIMPACK

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## SIMPACK Kinematics & Dynamics

This is the base module of SIMPACK, containing the pre processing functionality to create models, SIMPACK's solver (time domain etc.), and the post processing functionality to visualise results. All other modules and interfaces are extensions of this core module.



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## SIMPACK Kinematics & Dynamics

### Model Set-Up:

- Easy model set-up while still offering complete control to advanced users
- Interactive 3D GUI
- Extensive model element libraries
- Possibility to import CAD data

### Solver:

- Time domain
- Eigenmodes
- Static equilibrium
- Pre stress equilibrium for specified force elements
- Model debugging tests
- Inverse kinematics

### Animation/Plots:

- Animation of the 3D integration results and eigenmodes
- Plot or export of numerical data
- Plot templates with overlay capability
- Extensive library of curve filters

## SIMPACK products

- Basic Module  
Kinematics & Dynamics
  - Add-on Modules  
Automotive, Rail, CONTROL, USER,  
Code Export, SIMBEAM, Flexbody
  - Add-on Interfaces to CAD  
CATIA V4, CATIA V5, Pro/ENGINEER, I-DEAS
  - Add-on Interfaces to FEM  
ABAQUS, ANSYS, I-DEAS, MSC.NASTRAN,  
PERMAS, NX-Nastran
  - Add-on Interfaces CONTROL  
MATLAB Simulink, AMESim

## SIMPACK available operating systems

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

For further information or  
an in-house demonstration  
please contact

**in | tec**

Steven F Mulski  
Sales and projects  
INTEC GmbH  
Argelsrieder Feld 13  
D-82234 Wessling

Tel: 0049 8153 9288 -41  
Fax: 0049 8153 9288 -11  
e-mail: [steve.mulski@simpack.de](mailto:steve.mulski@simpack.de)