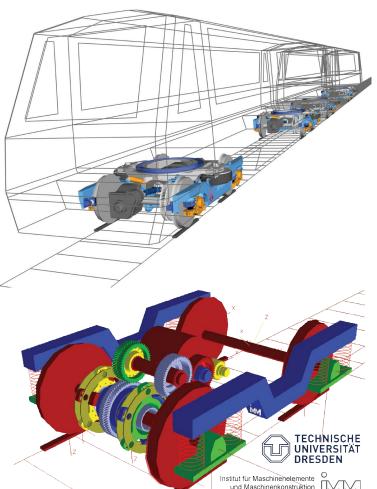




for Technology Leaders

# SIMPACK Rail

**APPLICATION** 



**SIMPACK Rail** is an add-on module tailored to the specific requirements of the rail sector and is the world-wide market leader for rail vehicles multi-body simulation. SIMPACK Rail is used to simulate the dynamics of all rail vehicles or complete trains.

# **Applications**

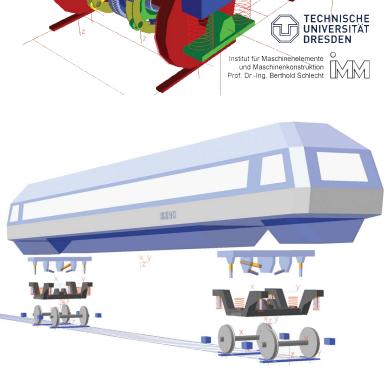
- Derailment safety
- Critical speed
- Passenger comfort
- Profile and track optimization, wear and RCF
- Gauging
- Driveline and braking
- Switches and crossings

## **Highlights**

- Unlimited flexibility
- Easy assembly of multi-car trains from submodels
- Powerful track editor
- Each wheel treated independently
- Scalable detail and complexity
- Batch jobs
- Automatic analysis reports

### **Features**

- Detailed and accurate (online) rail-to-wheel contact model, non-elliptic contact
- Multiple contact patches per wheel
- Fast and robust solver
- Linear and non-linear analyses
- Importation of Flexible Bodies from FEM codes
- Powerful control systems software interfaces
- Easy implementation of user specific code



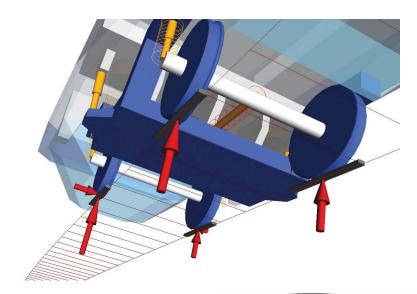
#### **APPLICATION**

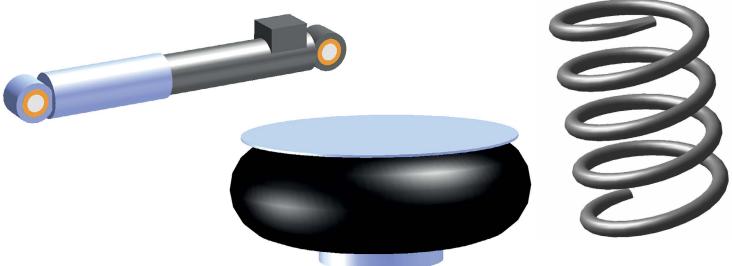
## Interfaces to

- FEM software
- Control software
- Fatigue analysis software
- CAD software
- In-house software
- Optimization tools
- Fluid dynamic simulation tools

# **Operating Systems**

• Windows and Linux. See: www.simpack.com/platforms.html





#### SIMPACK CUSTOMER SOLUTION CENTERS:

#### GERMANY HEADQUARTERS

#### SIMPACK GmbH

Friedrichshafener Strasse 1 82205 Gilching Germany

Phone: +49 8105 77266-0 Fax: +49 8105 77266-11 info@SIMPACK.de www.SIMPACK.com



For SIMPACK Distributors please go to www.simpack.com/contact.html

#### USA

#### SIMPACK US Inc.

#### **Dassault Systèmes SIMULIA Corp**

900 North Squirrel Road, Suite 100 Auburn Hills, Michigan 48326

Phone: +1 313 827-5500 Fax: +1 313 323-0149 Mobile: +1 251 923 9566 Robert.SOLOMON@3ds.com www.SIMPACK.com

#### JAPAN

#### SIMPACK Japan K.K.

21F ThinkPark Tower 2-1-1 Osaki Shinagawa-ku Tokyo 141-6020 Japan

Phone: +81 3 4321-3522 Fax: +81 3 4321-3543 info@SIMPACK.jp www.SIMPACK.jp

## GREAT BRITAIN

#### SIMPACK UK Ltd.

The Whittle Estate Cambridge Road Whetstone Leicester LE8 6LH UK

UK

Phone: +44 116 275 1313 Mobile: +44 7767 416 656 info@SIMPACK.co.uk www.SIMPACK.com

#### FRANCE

# SIMPACK France S.A.S. / Dassault Systèmes

20 Boulevard Eugène Deruelle Immeuble Le Britannia 69003 Lyon

France

Phone: +33 4 7214 1683 Mobile: +33 673 881 965 info@SIMPACK.fr www.SIMPACK.fr