



Accurate · Fast · Robust · Versatile

SIMPACK DRIVETRAIN

Application

What is SIMPACK?

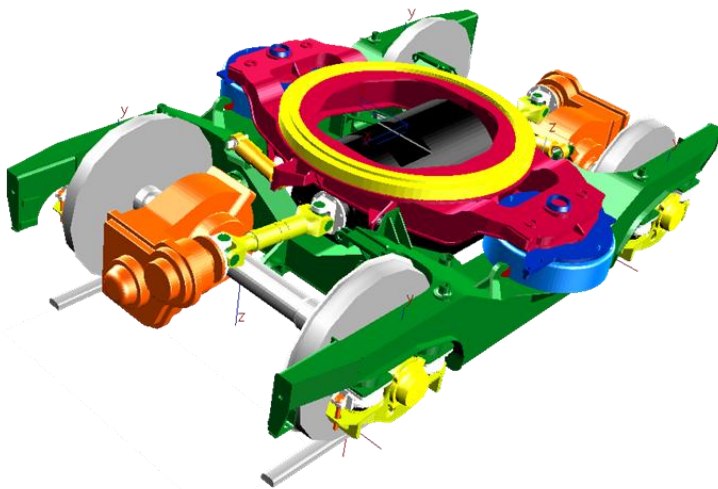
SIMPACK is a general purpose, three-dimensional multi-body simulation software, uniquely suited to the analysis and optimization of any type of drivetrain system. Primarily used for simulating drivetrains within the automotive, wind turbine and railway sectors, SIMPACK can be applied to any field of engineering where power transmission is required. All SIMPACK products are 100% compatible.

Applications:

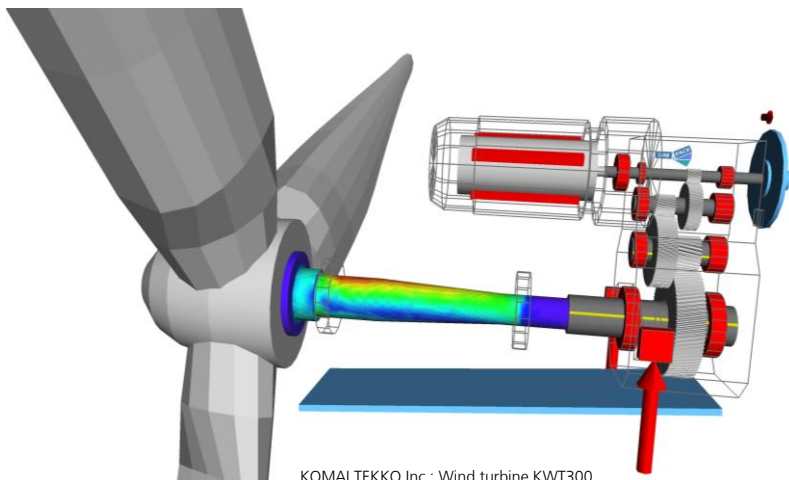
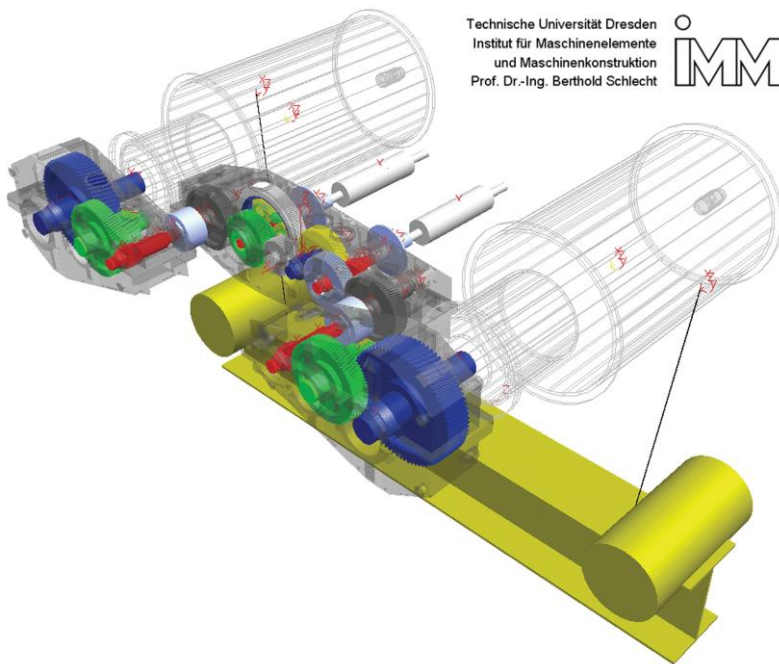

- System simulation of any embedded drivetrain design
- Resonance analysis
- Stochastic and transient response
- Optimization
- Stress and durability analysis
- Hardware/software-in-the-loop

Highlights:

- Simulation of any design
- Extreme non-linear system behavior, e.g. emergency braking
- Acoustic analyses in the frequency and time domain
- Interfaces to third party software
- Numerous possible levels of fidelity
- Batch jobs
- Automatic analysis reports



Technische Universität Dresden
Institut für Maschinenelemente
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Prof. Dr.-Ing. Berthold Schlecht



KOMAI TEKKO Inc.: Wind turbine KWT300

Features:

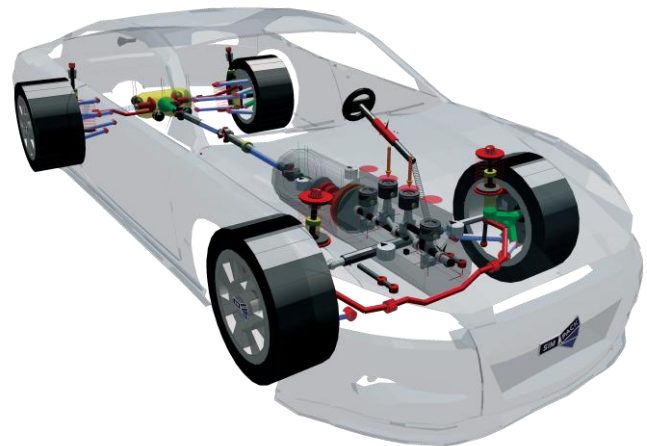
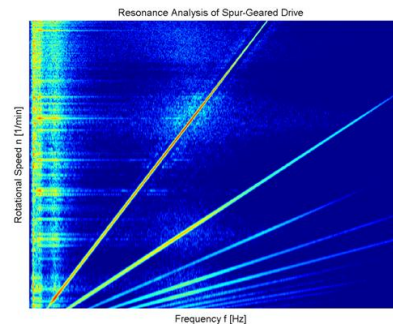
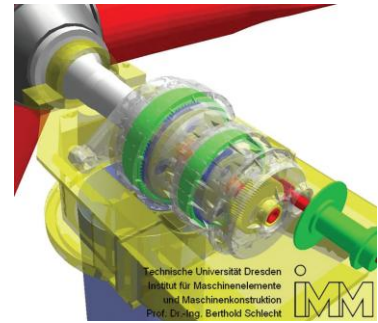
- Drivetrain specific elements:
 - Universal/Cardan and constant velocity elements
 - Bearings, elastomeric and hydro mounts
 - Gearboxes (gear shift, differential, planetary, etc.)
 - Detailed gear pairs (individual tooth contact)
 - Flywheels, clutches and synchromeshes
- Flexible body generation within SIMPACK
- Importation of flexible bodies from common FEM codes
- Non-linear bending
- Easy implementation of user specific code

Interfaces to:

- FEM software
- Control software
- CAD software
- CFD software
- Fatigue analysis software
- Aerodynamic codes
- Optimization tools

Operating systems:

- Windows and Linux.
See: www.SIMPACK.com/platforms.html



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