



Accurate · Fast · Robust · Versatile

SIMPACK WIND

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. wind turbines, vehicles, and high performance Formula 1 engines. All SIMPACK products are 100% compatible.

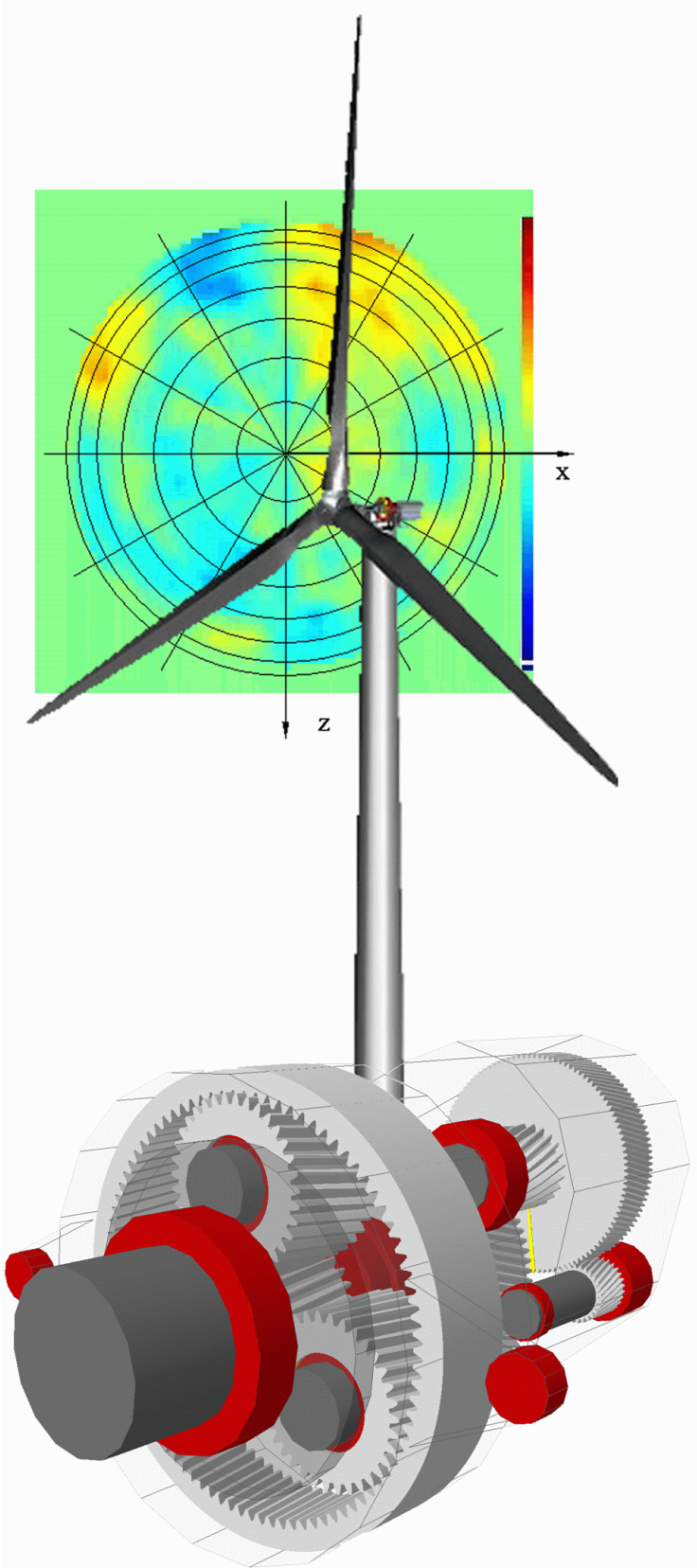
SIMPACK Wind is an add-on module tailored to the specific requirements of the wind turbine sector.

Applications:

- Simulation of any wind turbine design
- Resonance analysis
- Stochastic and transient response
- Geometric and material modification
- Optimization
- Durability
- Hardware-Software-in-the-loop

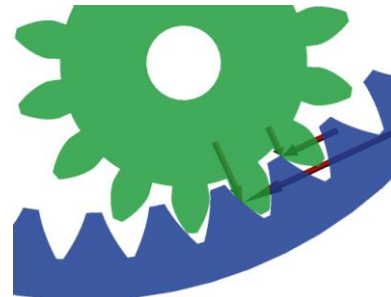
Highlights:

- Simulation of any design
- Extreme non-linear system behavior, e.g. emergency braking
- Acoustic analyses in the frequency and time domain
- Interfaces to aerodynamic codes, e.g. from NREL and ECN
- Scalable detail and complexity
- Batch jobs
- Automatic analysis reports
- Flexible rotorblade generator
- Available wind turbine models with highly detailed drivetrains



Features:

- Detailed gear pairs, originally developed for Formula 1
- Dynamic separation of gear pairs
- Flexible body generation within SIMPACK
- Importation of flexible bodies from FEM codes
- Non-linear bending
- Easy implementation of user specific code

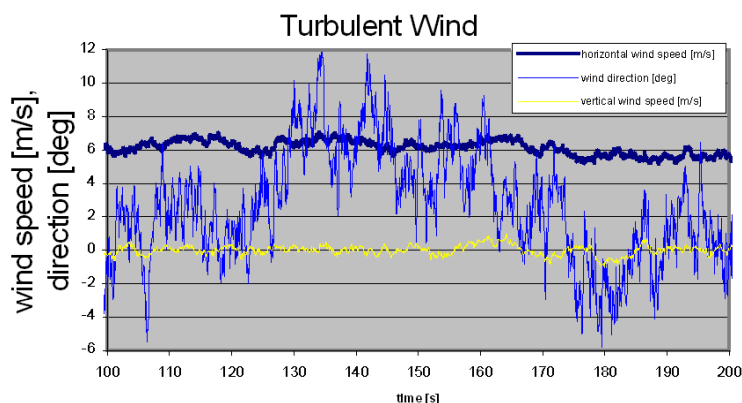


Interfaces to:

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

Operating systems:

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



In co-operation with:



SIMPACK Customer Solution Centers

Germany

Worldwide Headquarters

SIMPACK AG
Friedrichshafener Strasse 1
82205 Gilching, Germany

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

USA

SIMPACK US Inc.
Robert Solomon
25925 Telegraph Road, Suite 101
Southfield Michigan 48033, USA

Phone: +1 248 996-8750
Fax: +1 248 996-8930
Mobile: +1 251 923 9566
info@SIMPACK-US.com
www.SIMPACK.com

France

SIMPACK France S.A.S.
Immeuble "Le President",
4eme étage
40, Avenue Georges Pompidou
69003 Lyon, France

Phone : +33 (0)437 5619-71
info@SIMPACK.fr
www.SIMPACK.com

Japan

SIMPACK Japan K.K.
5F Okubo Bldg.
2-4-12 Yotsuya
Shinjuku-ku
Tokyo 160-0004, Japan

Phone: +81 (0)3 5360-6631
Fax: +81 (0)3 5360-6632
info@SIMPACK.jp
www.SIMPACK.jp

Great Britain

SIMPACK UK Ltd.
The Whittle Estate
Cambridge Road
Whetstone
Leicester LE8 6LH, UK

Phone: +44 (0)116 27513-13
Fax: +44 (0)116 27513-33
Mobile: +44 (0)7767 416 656
info@SIMPACK.co.uk
www.SIMPACK.co.uk