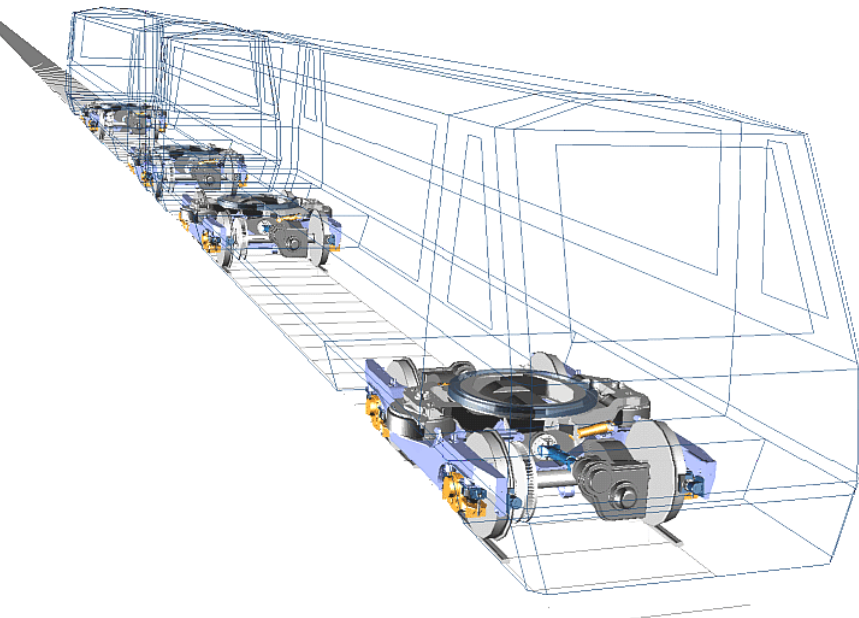




Accurate · Fast · Robust · Versatile

SIMPACK RAIL WEAR

Add-On Module



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. All SIMPACK products are 100% compatible.

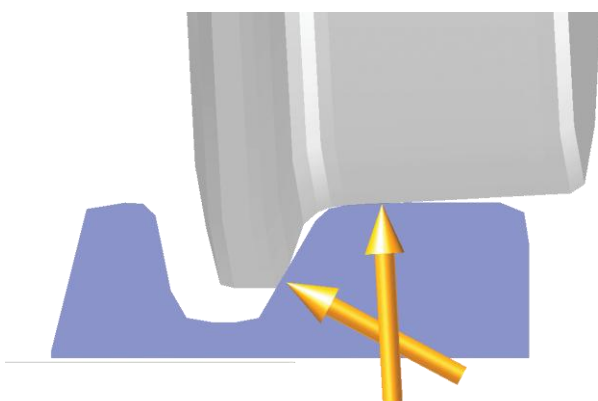
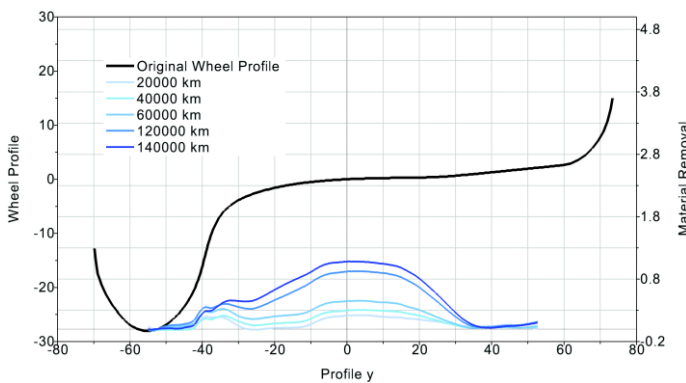
SIMPACK Rail is an add-on module developed to meet the requirements of the rail transport industry.

What is SIMPACK Rail Wear?

SIMPACK Rail Wear is an add-on to SIMPACK Rail. The module allows you to determine the distribution of the wear across the profiles and the profile change due to wear.

Wheels and rails are subject to wear and rolling contact fatigue (RCF) throughout their life cycle due to the forces applied by the railway vehicles. This leads to maintenance and safety issues.

Since there are so many different wear and RCF laws the module has an open structure which gives you the additional possibility to implement your preferred wear and RCF laws.



Applications:

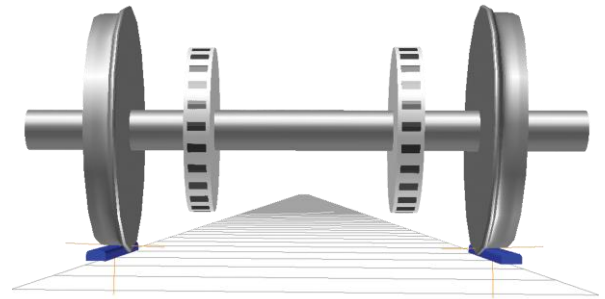
- Simulation of wheel and rail wear and RCF
- Comparison of vehicle concepts and profile geometries with regards to wear and RCF

Highlights:

- Easy to use and to add to existing models
- Fully extendable by the user
- Batch jobs with automatic profile update

Features:

- Automated calculation of the material removal on wheels and rails
- Automatic profile update in batch runs (requires SIMPACK VTL)
- Graphical representation of material removal and worn profiles in the SIMPACK PostProcessor
- Fully extendable to any wear and rolling contact fatigue (RCF) law by user programming
- Works with both Classic and New SIMPACK Rail



Requirements:

- SIMPACK Kinematics & Dynamics
- SIMPACK Rail
- SIMPACK User
- SIMPACK VTL (for batch job runs)

Operating systems:

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



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