



SilentRoll™ - Tyre Noise Simulation & Tyre Design Optimization Software Advanced version, release 4.0

Advanced simulation capabilities to help you design low noise tyres with great control on tyre structural component parameters.

Release Due Date: Dec 30, 2011

Key features:

- Estimate of tyre noise at a location
- Parametric Carcass design for lower noise
- Tread design for lower noise
- Tyre road contact simulation

Tyre noise is the second largest noise component in an automotive vehicle external noise. The ability to assess tyre noise at design stage enables tyre designers to design lower noise tyres and optimize the tyre design for desired noise performance. In view of **UN ECE Regulation No. 117**, it will be increasingly more important to design lower noise tyres in the years ahead.

SilentRoll version 4.0 has a unique approach to tyre noise simulation.

The power of Finite Element formulation with parametric tyre design enables a tyre designer to create a new tyre model fast and accurately.

Layered shell finite elements combined with solid rubber elements give an unmatched performance in simulating rolling tyre response.

Infinite finite elements for acoustics allow the observer level tyre noise simulation.

The software offers a unique approach to estimation of tyre noise in accordance with ECE regulations wherein all the vehicle tyres are allowed to be combined for coast by noise simulation of a vehicle. This takes the tyre noise simulation to a new level of performance. SilentRoll release 4.0 promises to do what others have just started to dream of.

Request for your 10 day free trial license.



SilentRoll version 4.0 not only helps you in designing tyre tread geometry, it also gives you control on your carcass design. The power to simulate rolling tyre foot print with standard tyre design data entry features means you not only design a lower noise tyre, you also simultaneously know the dynamics of your rolling tyre. The power of SilentRoll extends far beyond tyres... it allows you to gauge your vehicle dynamics. And SilentRoll has just begun!