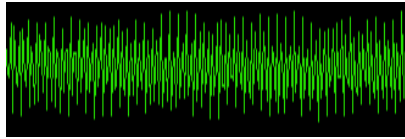


Tyre Noise Simulation

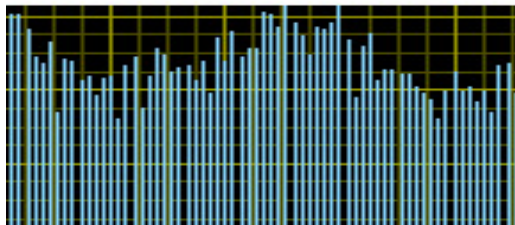


Why Tyre Noise?

- ❖ Worldwide Tyre Manufacturers and Vehicle Designers are looking for solutions which can enable them to control noise.
- ❖ Environmental regulations demand low noise tyres.
- ❖ Community concerns for traffic noise.
- ❖ Next Generation Tyres Demand Newer Levels of Quiet Operation – Redefine your product

Why Simulation?

- ❖ It is already too late if you realize that your tyre is noisy at measurement lab
- ❖ Can I know my Tyre Noise at design stage...YES!
- ❖ Can I design low noise Tyres...YES!
- ❖ Can I hear my Tyre Noise at Design Stage...YES!
- ❖ When you need to make your own tyre obsolete every quarter, you need be able to simulate tyre noise more often.



**Fast
&
Accurate**

**Tyre Noise Simulation
And
Tyre Tread Design
Optimization**

Complete Simulation Platform



**SilentRoll brings to Tyre Designers
and Engineers capabilities
unmatched in performance and
speed of execution in the highly
competitive domain of producing
Low Noise Tyres.**

SilentRoll™

Future Solutions Now...

FEATURES:

- ❖ Pitch Image Import
- ❖ NSD Image Import
- ❖ Leading and Trailing Edge Image Import
- ❖ Unlimited Pitches and Tracks
- ❖ Speed vs. Noise
- ❖ Vehicle Load Effect
- ❖ Material Properties
- ❖ dB & dBA Graphs
- ❖ Compare Multiple Designs
- ❖ Robust Optimizer for Pitch Sequence and Track Offset Optimization
- ❖ Total Noise, Fundamental Harmonic & Maximum Noise based Optimization Functions
- ❖ Handles ANY Tread Geometry including but not limited to Asymmetric, Symmetric, Directional, Bi-directional Treads
- ❖ 0-5kHz Frequency Range
- ❖ Generates Noise Data for each Track and Full Tread
- ❖ Creates HI-Fidelity (41.1KHz) .WAV Files for Playback on any Media Player
- ❖ Automatic MS Word Reports

