

Why use ChassisSim?



ChassisSim is one of the worlds most advanced and accurate vehicle simulation packages.

It has been used by international open wheel formula teams, sports car and touring car teams, plus Australian V8 Supercar teams.

If you want the best possible performance from your car, ChassisSim simulation is the ultimate tool. It will give you the information you need to maximize your car's performance for any given track.

ChassisSim is a different simulation package to all other motorsports specific software on the market today. Other lap time simulation packages work on pseudo static assumptions.

ChassisSim is built on a full multi body vehicle dynamic model. This means every lap simulation is the equivalent of having the perfect driver driving your chassis at its absolute capacity.

It also means ChassisSim is capable of evaluating damper changes, the effect of a bumpy track and curb hits, as well as other transient behaviour.

The ChassisSim user interface is tailored specifically for the motorsport environment. Advanced vehicle dynamics knowledge is not required because ChassisSim does the hard work for you.

Changes can be made simply allowing you to act quickly and respond intelligently to the results.

What would take multiple man hours on some other simulation packages can be done with ChassisSim in a fraction of the time due to the simplified user interface.

Why it is cost effective

As the costs of competing in motorsport continue to climb, ChassisSim allows you to do all the testing you want, for absolutely no cost except your own time.

A day's testing at a racetrack can cost thousands in labor, time and running costs. With ChassisSim you can test your car 24 hours a day, 7 days a week, for no cost. This kind of testing can mean the difference between winning and losing.

It is your perfect driver

Unlike most of its competitors, ChassisSim works by driving the car to its absolute capacity. It's like the perfect driver is piloting your chassis, ensuring you get the absolute most out of your vehicle.

ChassisSim also functions as the ultimate driver training tool; drivers will know exactly where to brake, turn in and apply the throttle.

ChassisSim will show you where those precious tenths or hundredths of a second can be gained, as well as quickly revealing the effect of any setup changes on the car's performance.

The results of ChassisSim can be viewed and analysed in several different data acquisition packages. This allows team engineers, mechanics and drivers to analyse every parameter of your car's performance and quickly validate the results by comparing it to actual data.

The data acquisition packages currently supported are;

- Pi – V6 Analysis Pro and Toolbox Pro
- Motec – Interpreter and I2
- Magneti Marelli – WinTax 4
- Bosch – WinDarab

ChassisSim maximizes your budget

ChassisSim isn't another race car simulation package that only produces lap time predictions and data outputs.

ChassisSim has a complete range of toolboxes that you can add to accurately test every component of the car that affects its performance – anti roll bars, shock absorbers, ride heights, gear ratios, engine power, wings, tyres etc. These toolboxes include:

- 7 Post Rig Analysis
- Auto Bump
- Aero Modelling
- Tyre Force Modelling
- Optimisation Toolbox 1: Aero
- Optimisation Toolbox 2: Mech
- Optimisation Toolbox 3: Dampers

There are a number of things that could be said about ChassisSim...

however I'll leave the best comment to one of my customers who has been involved in motor racing for over 35 years. This man has driven race cars and engineered them.

“I don't know how I engineered a car before using ChassisSim.”