

VehDynamics.xls

An excel spreadsheet that performs vehicle dynamics calculations

Installation

The spreadsheet relies on some macros stored in the file F90Macros.dll. This dll file should be copied to the Windows\System32 directory so that it will be found when Excel opens the spreadsheet. When first opened, Excel may produce a security message about the danger of macros containing viruses. You must press the "Enable Macros" button or the spreadsheet will not work.

Operating the Spreadsheet

You will see three tabs in the spreadsheet. The first shows *graphs* summarizing the calculation. You can also change which power curve will be used at the top of this sheet. The second sheet contains all the numbers associated with the *calculations*. If you want to change any of the basic numbers (weight, drag coefficient, gear ratios) you can do so on this sheet. The results will automatically recalculate when these numbers are changed. The final sheet contains the *power curves*. You can easily add other power curves to the spreadsheet by following the comments. Be sure to use the TableSetup macro which returns a unique number which identifies the table in the calculations.