

Student Race Car

The objective of this demo is to provide insight into the typical modeling steps related to the **size optimization** of a student racing car subjected to bending-, shear-, and torsion loads.

Please note, that the load cases, geometry of the frame, the dimensions of the 1D element cross sections, material parameters etc. are just **conceptual**.



Also this tutorial is available (in a slightly modified version) as a demo video at:

ftp://ftp.altair.de/pub/edu/protected/Student_Race_Car_March_8.zip (48 MB)

Important to note: While playing the video, the screen size can be adjusted through the CTRL Key and the mouse wheel.

The following working steps are briefly shown:

- **Size Optimization set-up**
- **Size Optimization Run**
- **Postprocessing**

In case you are new to HyperWorks we recommend viewing the video series: **HyperWorks Starter Kit** which provide a basic insight into the work flow and philosophy of HyperWorks. These videos are and available for free in the Academic Blog:

<http://www.altairuniversity.com/2011/09/22/hyperworks-starterkit-video-series/>