

# How to use VR Spring Constant

This application requires the Windows OS and the DIY 1 DOF haptic device turned on and connected to your computer.

After downloading the application from the website, unpack the "SPRING.zip" file and then open the file "SPRING.exe". By pressing the "Start Process" button the application is ready to run with the haptic device.

In the first tab the radio buttons switch between two basic examples "Spring 1" and "Spring 2".

In the second tab, "Customize", some spring parameters can be set, such as the material, the coil diameter and the wire diameter.

In the third tab, "More examples", four additional springs are available. To switch between them press the radio button in each box.

On the chart at the bottom left the blue line represents the force-displacement curve for the spring that is currently selected. The red dot moves on the blue line in response to the haptic operation. The grey line represents the force-displacement curve for the previously selected spring that.

To close the application the "STOP" button should be pressed before exiting.