



# LAB ACTIVITY

MECHANICS OF MATERIALS


## COMPRESSION TESTS P5


### PREPARED BY

Juan Eduardo Leal Lara  
Executive Vice President Operations  
PNX Labs Americas

Borislav Ginov  
Engineering Development  
PNX Labs GmbH

 Luxemburger Str. 10, 13353 Berlin, Germany

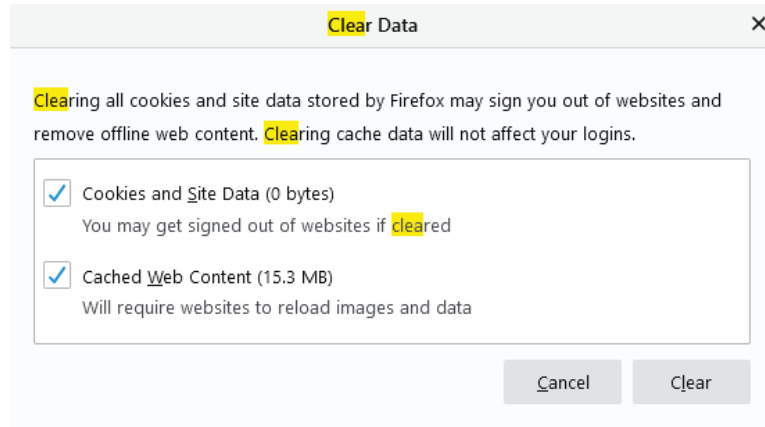
 +521-811-553-7792

 [pnxlabs.com](http://pnxlabs.com)

## Instructions for WEB App

Before opening the WEB app for the Mechanics of Materials Activity follow these steps:

1. Open Google Chrome or Mozilla Firefox (The App will not work properly on Edge, Explorer or Safari).
2. Open the Browser Options Menu and delete all the cookies and data files of your browser, you can keep the browsing history and passwords.



3. Open the Link of the App

Web App: <http://pnxlabs.com/Demos/TecMatP5T>

## Instructions for Windows Installer

1. Download the App Installer:

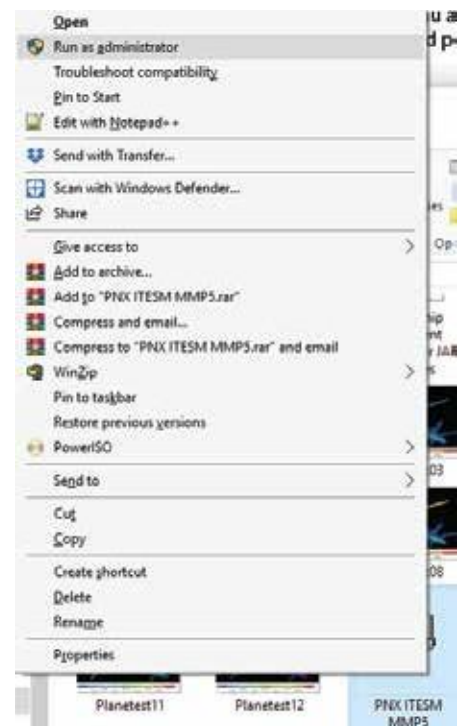
Windows Installer:

<http://pnxlabs.com/Demos/TecMatP5T/Win/PNXMMP5.exe>

2. Right Click on the App and run it in Administrator Mode

3. Install the App

Note: If you install the Windows App, when you test the different specimens in the Universal Test Machine a csv file will be generated in the SAVE folder where you made the installation of the program.



## Cheat Sheet

1. When The app launches select Full Screen for a better experience



2. Use W,A,S,D or the Arrows to move around. "Press E to Show the mouse cursor." Listen carefully to the instructions at all times.

3. Material Specifications:

Aluminum: A6061

Copper: C64700

Titanium: Grade 5 (6AL4V)

Stainless Steel : 316

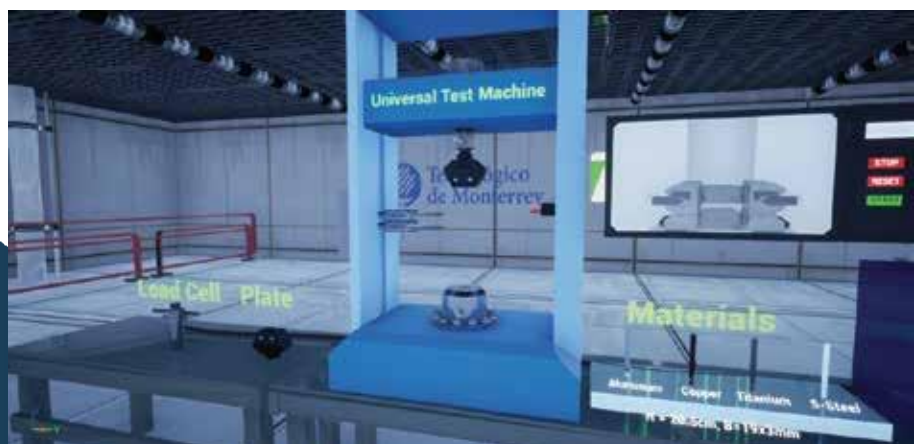


4. Grab Objects and Camera

a) Before grabbing an object make sure you have a clear visualization of where you are going to move it. For example before placing the plate and the Load Cell

1. Press V to switch the character camera position yourself so you have a clear view of the Universal Test Machine and the Load Cell/Plate.

2. Press E to show the cursor and move the objects.





Make Sure you complete the Guided Activity so you can understand how to use the Universal Test Machine.

Complete your Lab P5 Activity with the Data from the Compression Graphs.