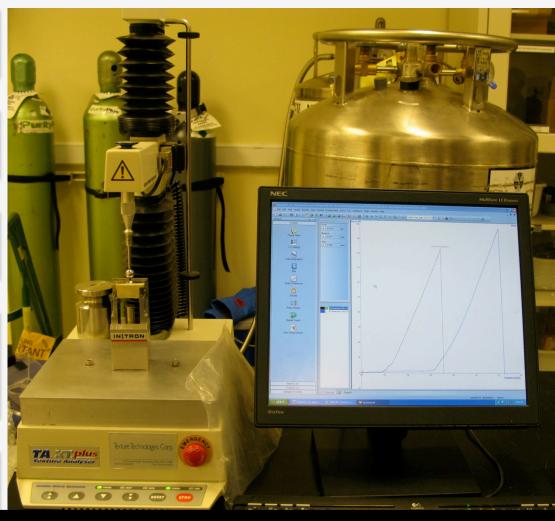
STEPS NECESSARY TO RUN AND SAVE MECH. TESTING DATA TO A FILE

- 1. MEASURE SAMPLE DIAMETERS (PG 2, step 6)
- 2. TURN ON HARDWARE AND OPEN SOFTWARE (PG 2, step 2)
- 3. SET APPROPRIATE SAMPLE TYPE AND DIRECTORY (PG 3, step 3 & 4)
- 4. SETUP THE TESTING RIG FOR SAMPLES: MAKE SURE TO PROPERLY ALIGN THE RIG WITH THE BALL INDENTOR (PG 4, step 1)
- 8. SAVE BOTH AN IMAGE FILE AND TEXT (PG 4, step 4)



- **1.** 30kg (294N) load cell is used for the TA Texture Analyser
- **3.** Click on the "Exponent" icon on the desktop to start the software



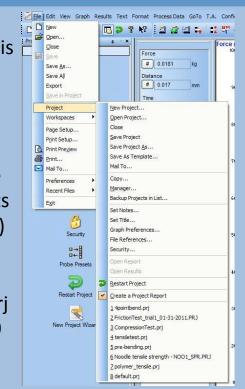
2. To start the testing frame, reset the Emergency Stop button



5. Once the main window is up, go to:

File | Project |
Open Project
(or look at the recent projects at the bottom)

Open the 4pointbend.prj in the mse360 folder



4. Highlight the "mse 360-365" user and click on the OK button

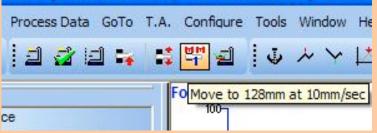


6. TIP:

Remember to obtain an average diameter for the glass rods

pg3

1. Before running a test, move the tester to its home position by pressing the second button from the right of the bottom menu (button says "mm")



2. Press the "Run a Test" button

Force (Run a Test)

3. Under File ID: Click on the Help button or pres adjust the id of Archive Information your sample, s built up using the File ID ollowed by the File Number. The including your group name specialise it and if the File Number is set to -1 then it is no and day. The box after the = presents a File Name File ID: x = As Received GSI3 File Number: Number Format

4. Adjust the path for the given sample type.

Click "Apply"

Folder
Auto Save ✓ Automatically Create Directory When Required: ✓

Path: C:\Documents and Settings\MSE\My Documents\Exponent\mse360\4pointbend\As Received\

■ My Documents\Exponent\mse360\4pointbend\As Received\

The dead of the frame can be manually moved by using the up/down arrows on the frame

SERBIO MICRO SYSTEMS

POWER BUSY

RESET STOP

6. TIP: It is important to always wear safety glasses and use safety shield/machine guard when operating the Texture Analyser

1. Set up the test rig:

Place 4 point rig in the area indicated by the square on the platen, inside the shrapnel catching bag place the glass sample in the test rig

3. In the "Run a Test" dialogue box,

Click "Run a Test"

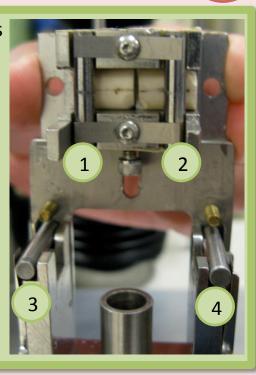


2. - Top support span is 20mm (2/L). (1-2)

- Bottom support span is 40mm (L). (3-4)

 Place sample between top and bottom spans.

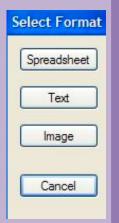
- Center on back brass screws



4. After all of the test are performed for a given type, right click on list of tests and select all your tests:

Go to File | Export... export:

- A image of the graph image
- Text file of raw data



- 5. Each group runs 5 samples each of:
- As Received Fire Polished
- 240 Grit Transverse 240 Grit Longitudinal
- **6. TIP:** For the weibull statistics, the peak load is required. In excel, use the following formula:
- =MAX(number1, number 2...)

You will also need the diameter of the glass rod.