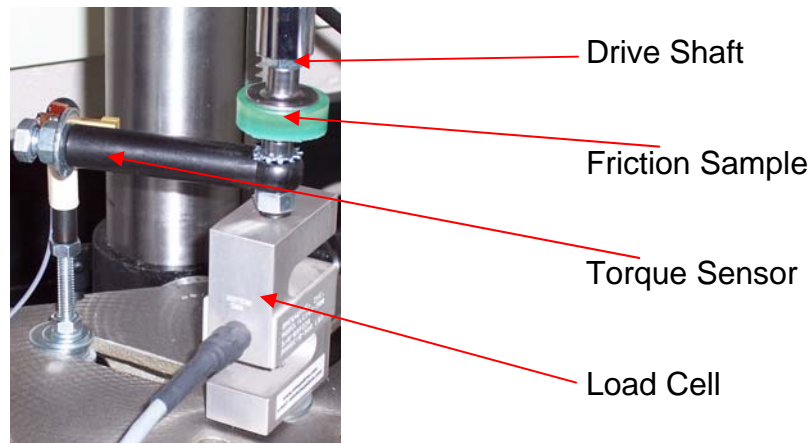


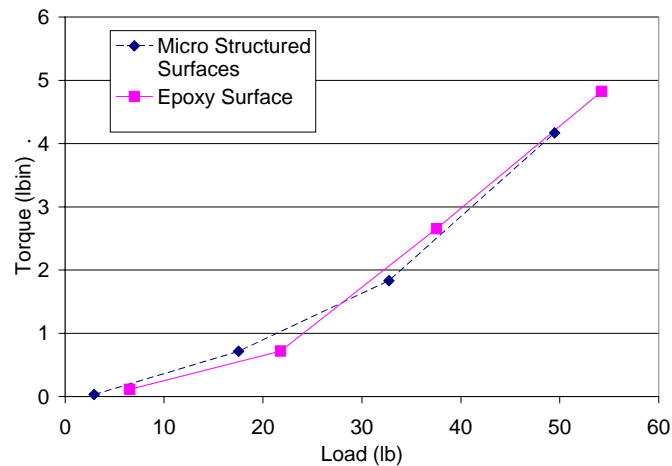
## Auburn Multiscale Tribology Laboratory

### Disk on Disk Friction and Wear Test Apparatus

This is a simple machine designed to test friction and wear between two samples. One sample is rotating at a constant speed. The friction transferred between the surfaces is measured from a torque sensor located below the surfaces. A load cell also measures the normal load in the vertical direction. Dead weights are used to load an arm which presses the surfaces together. The rig is very versatile and can handle samples of many different sizes and materials. In addition, it can be easily adapted to incorporate additional sensors as needed. Data from the rig is digitally recorded through a high speed data acquisition board and PC. The machine has been used in several research projects to measure friction between various metals and polymers.



### Sample Test Results



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