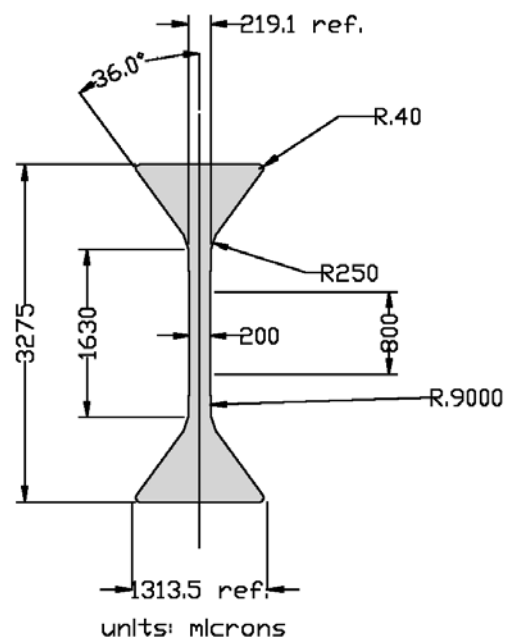


Mini-tester capabilities

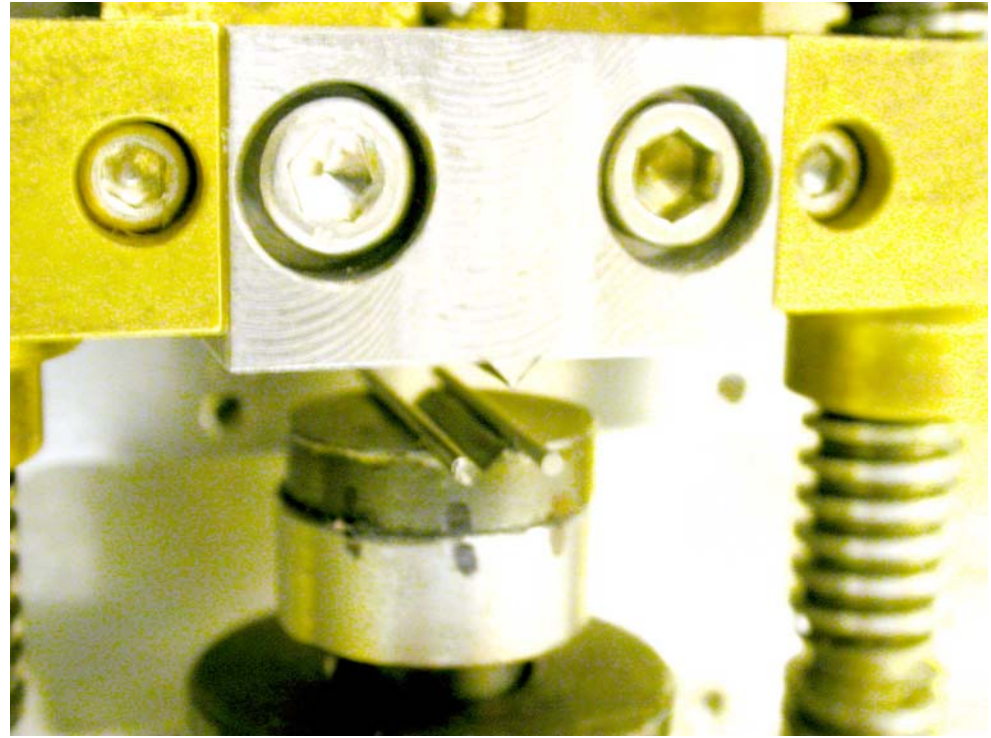
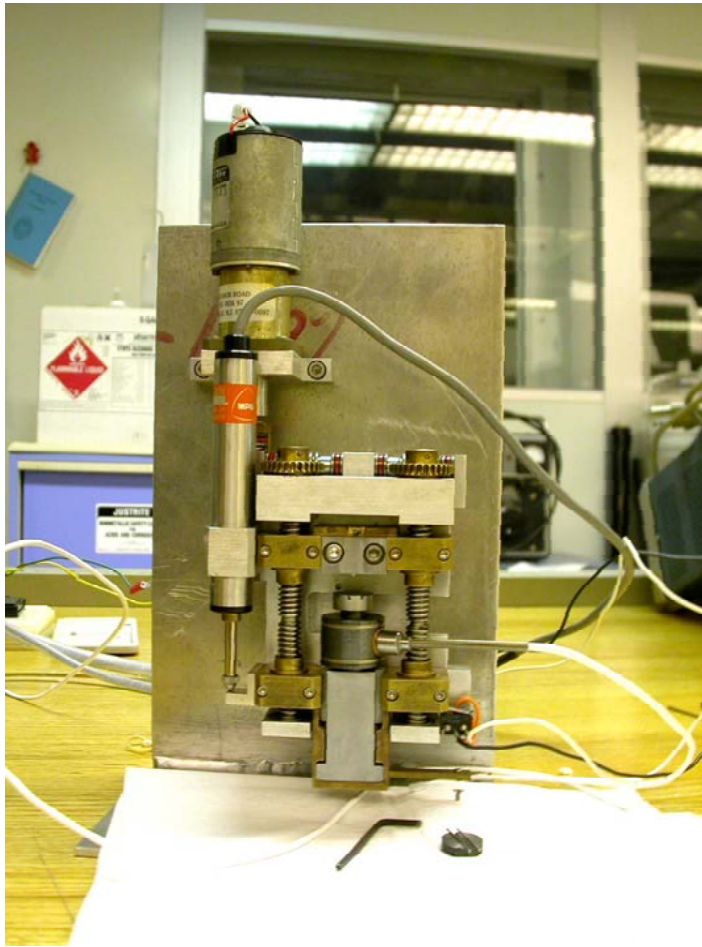
- Environmental Scanning Electron Microscope (ESEM) in-situ testing compatibility
- Load cells: 250 g-f, 100 lbs., 1000 lbs., tension/compression
- Displacement: μm – mm range
- Tension, compression, 3- or 4-point bending
- Typical specimens: wires, foils, cylinders, mini-dogbones, other small structures
- Suitable for metals, ceramics, and polymers

Mini-dogbone specifications



For an example of a 3-point bend test performed inside the ESEM please see:

T.C. Hufnagel, P. El-Deiry, and R.P. Vinci, *Development of shear band structure during deformation of a $Zr_{57}Ti_5Cu_{20}Ni_8Al_{10}$ bulk metallic glass*, Scripta Mat. 43, 2000, pp. 1071-5.



The image on the left shows the mini-tester in table-top mode. It is configured for 3-point bending, as shown in the righthand close-up image. The grips can be exchanged to allow compression and tensile testing of different specimen configurations including mini-dogbones. The tester can also be used in conjunction with a light optical microscope for medium magnification or an Environmental Scanning Electron Microscope for high magnification observation during testing.