

Micro EP Miniature Universal Testing Machines



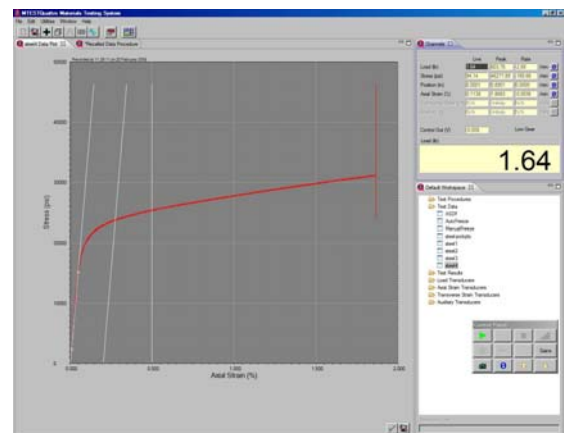
Micro EP 5kN Tensile Stage equipped with ADMET's MTESTQuattro™ Materials Testing System

Advanced Digital Control

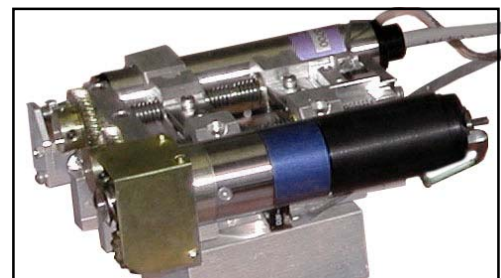
Micro EP miniature testers come equipped with two easy-to-learn easy-to-use fast acting digital closed-loop controllers.

MTESTQuattro™ - ADMET's popular PC/Windows based materials testing system is the most powerful and versatile solution. Standard with MTESTQuattro™ are load, crosshead position, axial strain, transverse strain and auxiliary input channels. Three additional auxiliary input channels can be provided as an option for a total of eight input channels. A comprehensive set of monotonic, segmented or cyclic servo control profiles under load, position or strain control is available which provides the capability to perform virtually any type of test. Test reports featuring test and specimen information, results and a stress vs. strain curve can be printed or readied for email. A statistical summary for a group of like tests can also be generated. All results or raw data can be exported to a database or spreadsheet program for further review. Third party programs can also access XY data real-time from MTESTQuattro™. Ideal for combining information from multiple pieces of equipment.

The *Micro EP* line of instruments are palm-sized testers for tension, compression and bend testing. Equipped with a powerful digital closed-loop controller, ADMET's *Micro EP* is a mini tester that can also adapt to many microscope stages. *Micro EP* models are available with force capacities to 5kN (1,125 Lb), optional crosshead strokes, testing speeds, thermoelectric heaters and coolers. Various types of clamps and fixtures are also available for testing biomaterials, wire, textiles, elastomers, plastics, films, foils and other materials with confidence. Each system can be programmed to perform simple force or displacement control tests to failure or more sophisticated long term ramp and hold or cyclic control profiles. The cyclic control profile makes it possible to perform low cycle (<3Hz) fatigue tests.



MTESTQuattro™ Live Screen



Micro EP 450N Tensile Stage



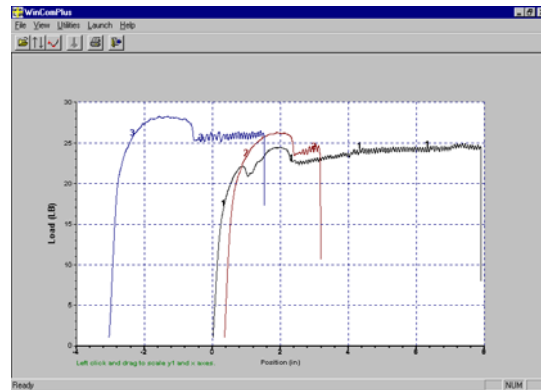
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For a Total Solution to all of your Materials Testing Needs

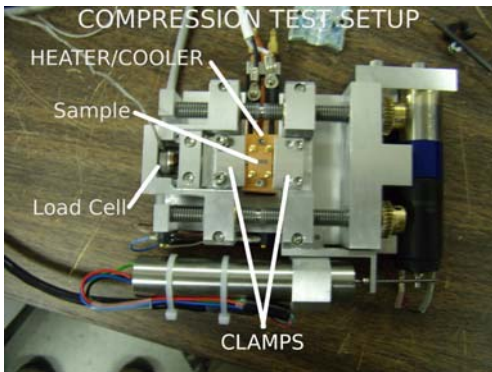
eP Digital Controller - Features force and displacement inputs, 24-key keypad, 4 line x 20 character LCD display and emergency stop button. Keypad includes functions for test start, return to home, jog up and jog down. Includes calculations for peak load, peak stress, average load, offset yield, modulus of elasticity, percent elongation at break, energy and more. Users can specify a displacement or force control rate to a force, displacement, time or sample break. Cycling between force or displacement values can also be programmed. Up to six password protected test methods can be stored to memory. At the push of a button, the user can quickly switch between methods for fast efficient testing. Up to 200 test results per method can be stored. Use the WinCom Live Data Communications program to view an XY test curve real-time on a computer. If live viewing of the test curve is not a requirement, a lower cost communications and plotting software program is available. Force-displacement curves and test results can also be exported after each test to a Windows based computer running the WinCOM Plus Data Communications program.



eP Digital Closed Loop Controller with Force and Position Inputs.



WinCOM Plus multiplot view.



Micro EP with heater/cooler.

Each Micro EP system is custom configured for the specific application at no additional cost. Below are typical load frame specifications.

Length: 165 mm (6.5 in)
 Width: 115 mm (4.5 in)
 Height: 45 mm (1.8 in)
 Sample Load Height: 25 mm (1.0 in)

Sample Width: 13 mm (0.5 in) Standard
 25 mm (1.0 in) Optional
 Sample Thickness: 1.5 mm (0.06 in)
 Power Requirements: 110-220 VAC Single Phase

Force Ranges: up to 5kN (1,125 Lb)
 Load cells are available from 50 grams to 5 kN.

Accessories/Options

- Grips and fixtures for tension, compression and bend testing.
- Thermoelectric heaters and coolers.

Crosshead Stroke: 50 mm (2.0 in)
 Longer strokes are available.

Maximum Testing Speed: 15 mm/min (0.6 in/min)
 Lower gear reductions can be provided for faster testing speeds.