

## MicroBionix Testing System

MTS MicroBionix Testing System, computer with Testworks II software, vibration isolation table, various grips, video camera mount.

	Range	Resolution
Displacement	12 mm	1 $\mu$ m
DCM Mode: Loads	5 N	5 mN
XP Mode: Loads	250 N	2.5 N

### Accessories

Horizontally configured, the Micro Bionix system conveniently accommodates special accessories for tissue cultures and other soft specimens, including:

- Various load cells (5 N, 250 N)
- Various grips (depending on application)
- Various accessories for different workbench configurations
- Adjustable-height mini-platform (typically used underneath specimen)
- Video camera, VCR, and monitor
- Video camera mount with 3-D adjustment

### Specifications

The Micro Bionix system offers load test capability from 0.001 N to 250 N and a frequency of up to 50 Hz. It can test soft tissues with a 1-micrometer displacement resolution through 12-mm displacement range, making it ideal for tissue engineering applications. In addition, it plugs into a standard AC electrical outlet, eliminating the noise and inconvenience of oil-based hydraulic systems.

### Applications

Its dual static and dynamic capabilities make it ideal for a broad range of monotonic, durability, and fatigue testing. Tests can be run in load, displacement, and strain control modes. Displacement range is +/- 12 mm, making it ideal for testing compliant soft tissues. Soft tissue applications include cyclic or step loading to analyze viscoelastic responses, fracture mechanics, or fatigue.