

# Biaxial Tester

**BioTester5000** offers you a complete system for testing small biological specimens and analyzing the test results. Skin, ligaments, blood vessels, heart valves, sclera, membranes, scaffolds – BioTester can examine any planar biological or replacement tissue. Easy-to-use, yet powerful, image tracking and analysis software delivers synchronized data, image and video management. Data can be exported to spreadsheets or analysis software.

- Quick and easy sample mounting
- High Resolution (integrated) CCD camera
- Image tracking and analysis software included
- Precision measurement of small samples
- Simple USB interface for quick connection
- User-friendly, comprehensive software
- Real-time data analysis

## Sample Mounting

Unique tungsten BioRakes easily pierce the toughest and most delicate soft tissue samples. They provide distributed attachment sites across the geometry of the sample for uniform attachment and deformation across the sample edges. The sharp rakes will not damage fragile samples.



## MicroSquisher

- Compression testing of hydrogel, cellular construct and small tissue sample specimens
- 50–2000 $\mu$ m test specimens with 0.05 $\mu$ N force resolution



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## MechanoCulture

- Culture cells on a deformable substrate to understand how the mechanical environment affects cell differentiation, mitosis and signalling
- Test monolayer or 3D cultures with uniform strains up to 20%

