CellScale
biomaterials testing

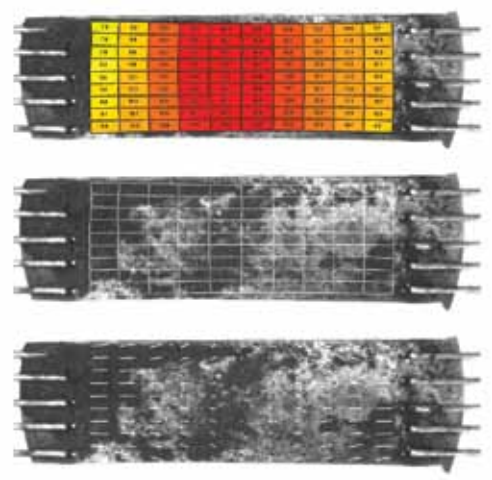
Test specimens 3x3mm to 20mm x 100mm

Finally an Economical Uniaxial Tester

The UStretch Uniaxial Tester

- Quality testing
- Cost-effective
- Easy to use
- Multiple attachment options
- Available imaging and temperature controlled fluid bath

Typical applications include hydrogels, skin, muscle, blood vessels, heart valves, ligaments, sclera and scaffolds.



<< Optional image tracking and analysis software allows images to be analyzed to identify and quantify strain non-uniformities & regional property variations (like those in the specimen to the left).

The UStretch makes it possible to carry out dependable, mechanical testing of soft materials for a reasonable price.

CELLSCALE | 572 Weber Street N., Unit 3B, Waterloo, ON N2L 5C6 | T: 519.342.6870 | info@cellscale.com | **www.cellscale.com**
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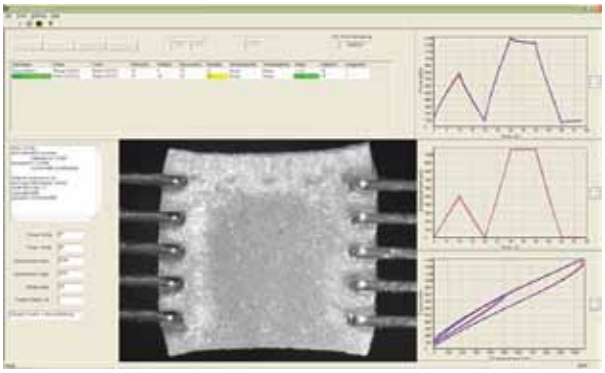
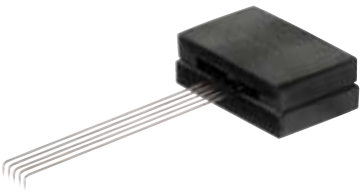


<< Integrated software makes it easy to specify test protocols, whether simple or complex. Test protocols can be saved and modified. Real-time force and displacement graphing facilitates test validation.

Technical Specifications:

Specimen Size	3x3mm up to 20x100mm
Force Capacity	0.5N, 1N, 2.5N, 4.5N, 8.9N, 22N, 44N, 110N
Force Accuracy	0.2% of force capacity
Maximum Elongation Rate	50mm/s
Attachment Methods	BioRake and Clamp Sample Mounting System
Camera, Tracking and Analysis Software (optional)	Full motion and strain analysis
Heated Bath (optional)	User controlled up to 40˚C
Report Generating Software	.avi WYSIWYG and Excel
Image Rate and Resolution	15Hz, 1280 x 960
Maximum Force Displacement Rate	100Hz



<< The patented BioRake attachment system allows specimens to be mounted quickly and precisely.

>> UStretch with optional temperature controlled bath, pivot frame and camera.

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CellScale is an industry leader in providing researchers with precision biomaterial and mechanobiology test systems.

Our mechanical test systems are specifically designed for analyzing and characterizing the material properties of natural and artificial biomaterials. Our mechanobiology technology helps advance research by providing insights into the response of cells to mechanical stimulation – a key factor in the pursuit of the next revolution in medical treatments.

Explore our website, or contact us, to learn how our innovative products can advance your research and development.

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