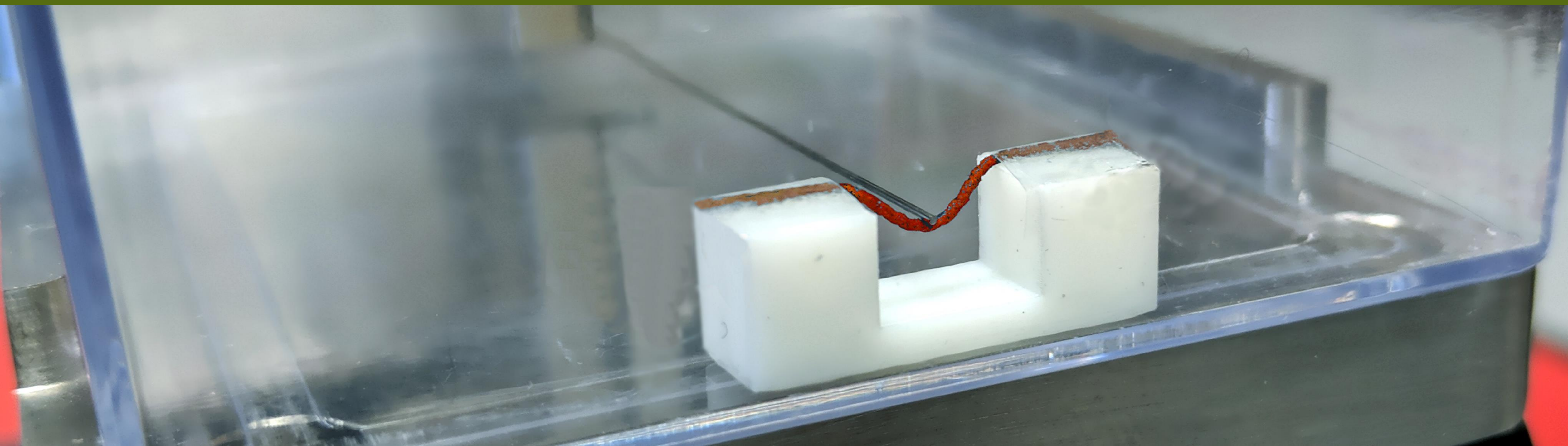


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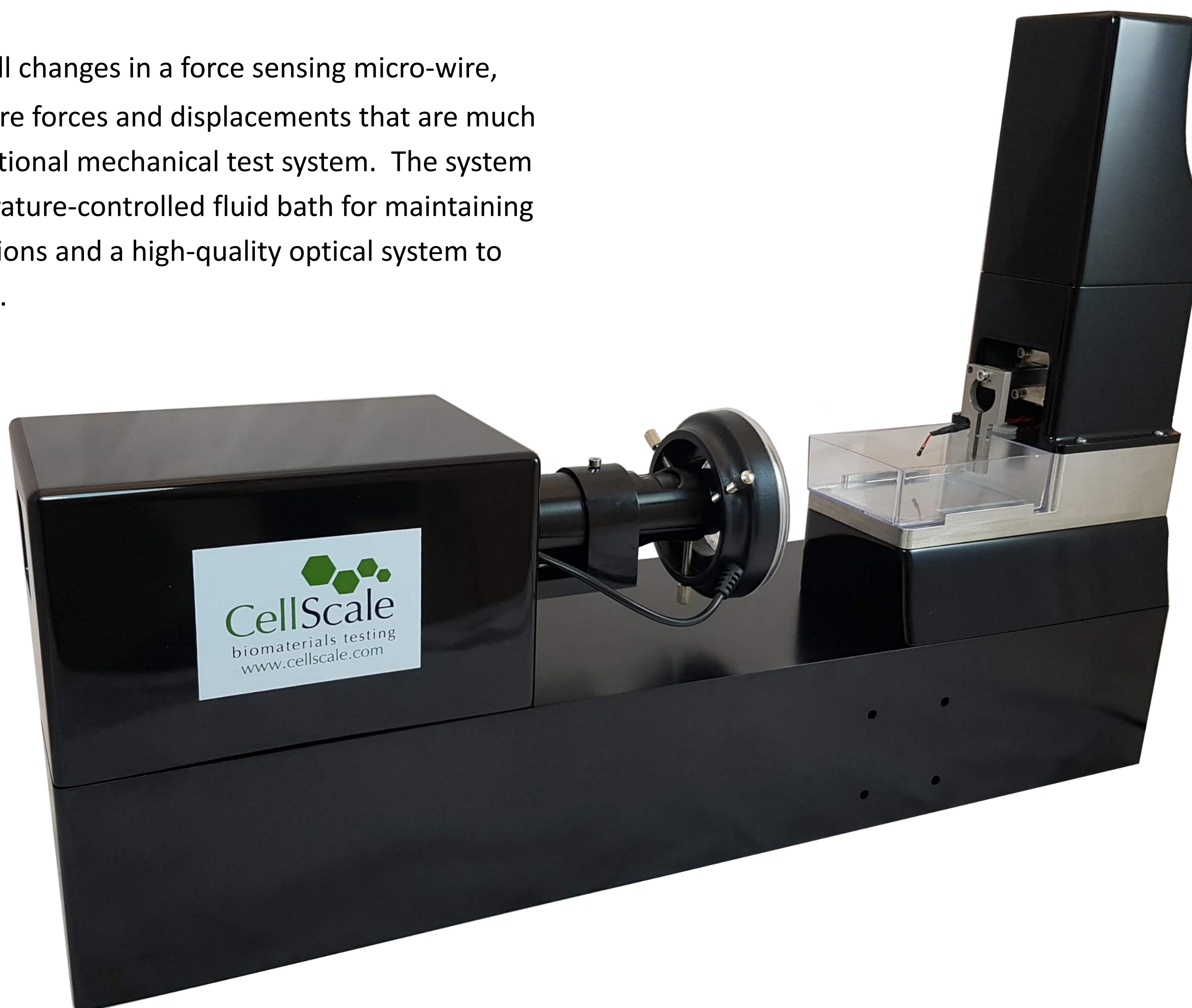
# MicroTester G2



The **MicroTester G2** is a micro-scale tension-compression test system. It can be used to determine the stress-strain properties of a variety of materials including tissue samples, cell aggregates, hydrogels, and tissue engineering scaffold materials.

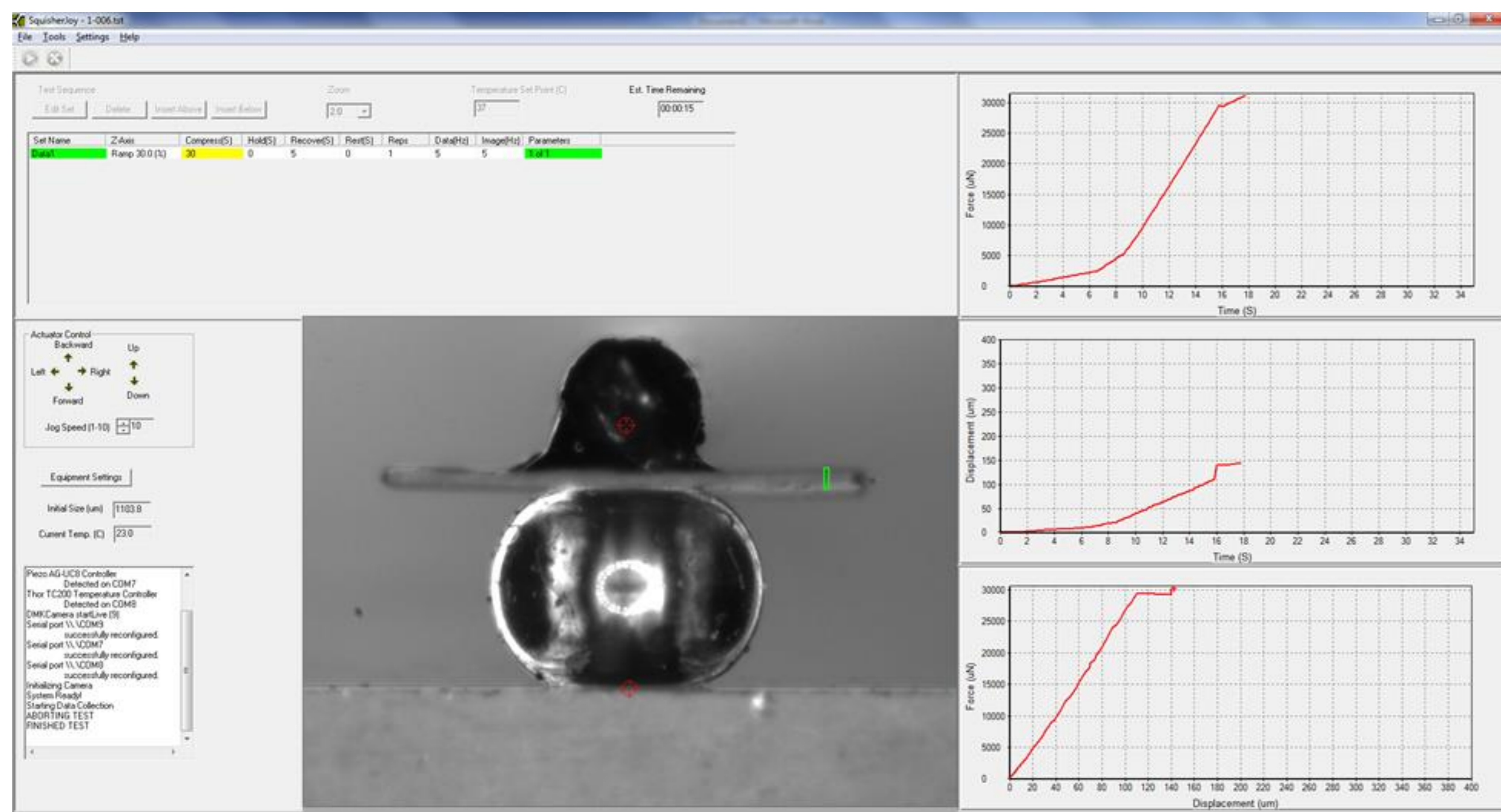
By **detecting** small changes in a force sensing micro-wire, the system can measure forces and displacements that are much smaller than a conventional mechanical test system. The system incorporates a temperature-controlled fluid bath for maintaining ideal specimen conditions and a high-quality optical system to provide user feedback.

Force Resolution down to 10nN and spatial resolution down to 0.1 $\mu$ m are possible with this specialized system. The control software can support both force-controlled and displacement-controlled user protocols.





Below, the **MicroTester G2** compresses a microsphere between 2 parallel plates as prescribed in the user test protocol. The system outputs force and displacement data as well as time-correlated images of the test.

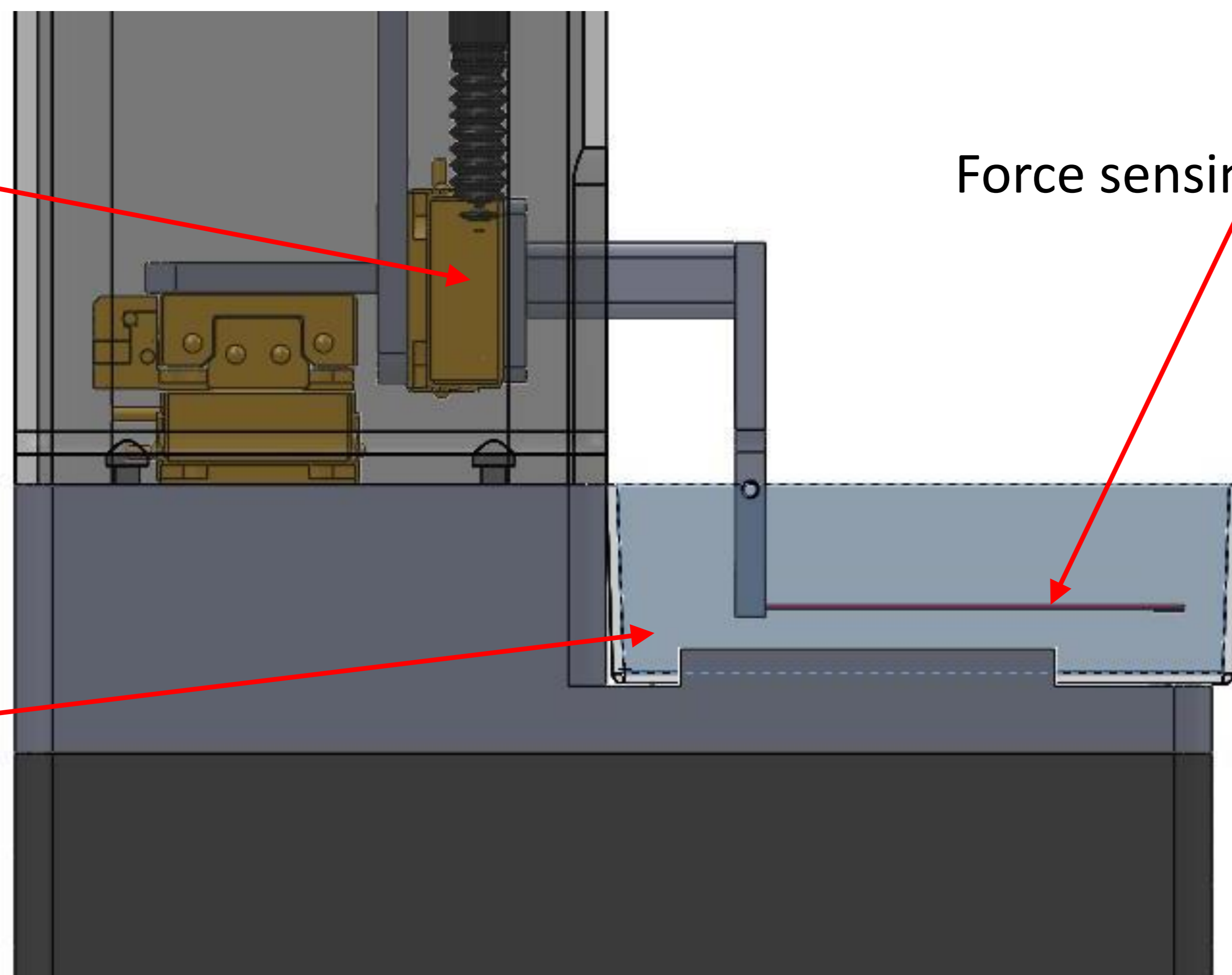


Configurable test software with live images and data

Dimensions	56 x 14 x 24 cm
Weight	9 kg
Force Capacity	500 mN
Available Force Transducers	0.005, 0.02, 0.08, 0.2, 1, 5, 25, 100, 500 mN
Force Accuracy	Approx. 0.2% of transducer capacity
Maximum Grip Separation	Approx. 10 mm
Maximum Velocity	0.5 mm/s
Maximum Cycle Frequency	0.1 Hz
Maximum Data Rate	5 Hz
Actuator Technology	Piezo-electric Motor
Actuator Resolution	0.1 µm
Range of Field of View	0.4 – 11.0 mm
Vertical Image Resolution	2048 px
Secondary Camera Option	Yes
Test Modes	Compression, Tension, Bending, Indentation, Shear

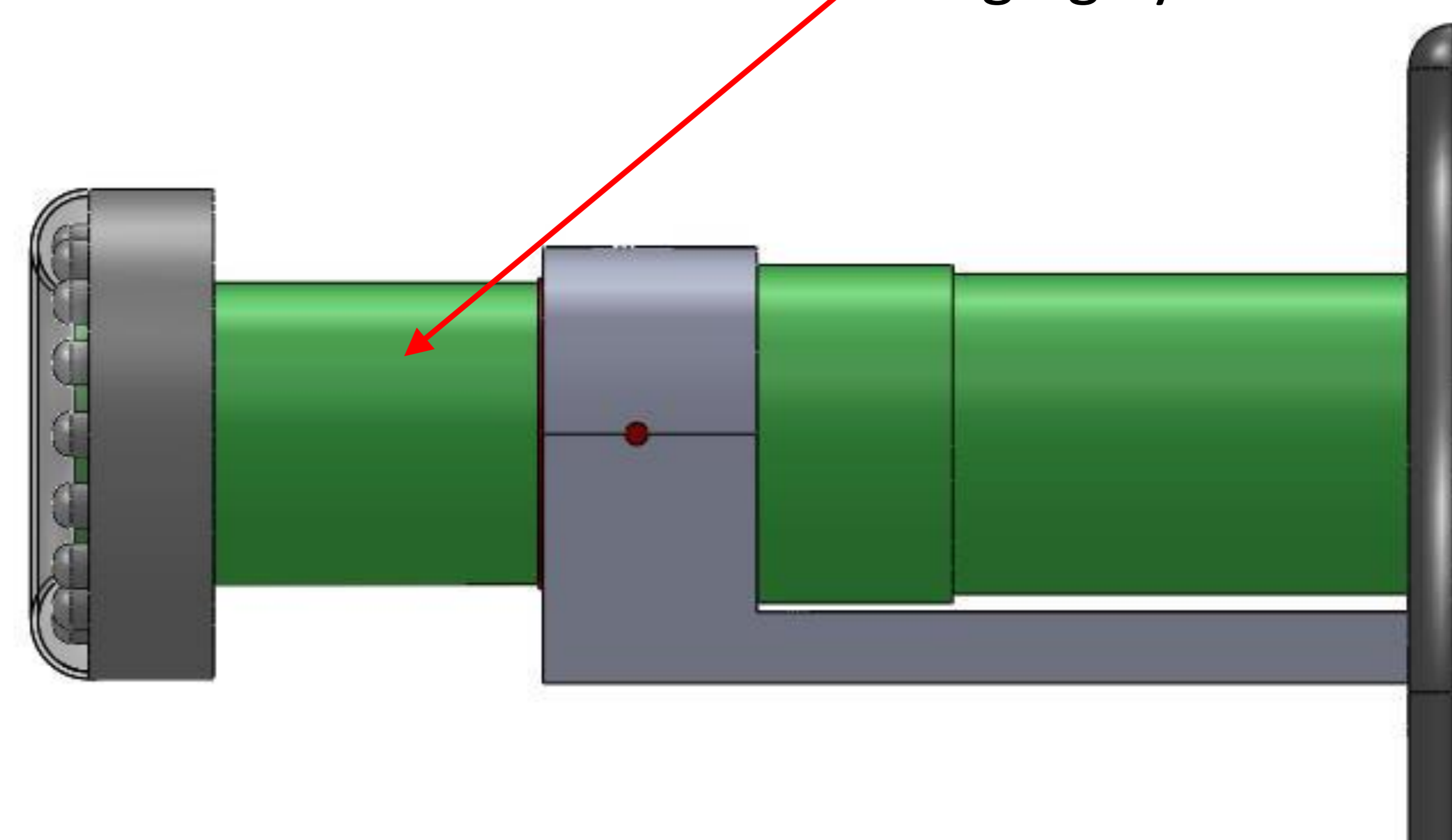
Three-axis, high resolution piezo-motor stage

Temperature-controlled fluid bath



Force sensing micro-wire

High-resolution imaging System



**CellScale Biomaterials Testing** is the industry leader for precision biomaterial and mechanobiology test systems. Our products are being used at world-class academic and commercial organizations in over 30 countries around the globe.

Our **mechanical test systems** allow researchers to characterize the mechanical properties of biomaterials. Our **mechanobiology technologies** provide insights into the response of cells to mechanical stimulation.

**CellScale's technologies** are improving human health by helping researchers discover the causes of disease, improve medical treatments and devices, and advance regenerative medicine and other basic science research.

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