CellScale biomaterials testing

MechanoCulture J1



- 25mm actuator travel
- Spring-closure specimen grips with adjustable gripping force
- Ports for fluid exchange in each well
- Autoclavable chambers
- Fluid-cooled controller
- Incubator compatible
- PC-independent operation
- Software for specifying simple, cyclic, and intermittent stimulation protocols

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The MechanoCulture J1 Specimen Grips come in 2 standard sizes that are paired with matching specimen chambers. The clamping force of each grip can be adjusted by changing out the grip spring. Spring-closure grips ensure consistent clamping force from test-to-test and during each test. For high force testing, the grips are also equipped with a screw closure mechanism that is capable of providing >200N of clamping force.

Customizations to the standard grips and chambers is readily available to meet research needs.

	Large	Small
Width (mm)	38	12
Spring Clamping Force Range (N)	1-200	1-20
Well Volume (mL)	150	30
Maximum Grip Separation (mm)	55	39
Maximum Grip Opening (mm)	7.5	3.0
Grip Jaw Surface (other options available)	Smooth	Smooth









MechanoCulture J1 Specifications

Dimensions	16.5 x 11.5 x 30 cm
Weight	7 kg
Actuator Stroke	25mm
Available Load Cells	10, 20, 50, and 100 N
Force Accuracy	0.2% of transducer capacity
Maximum Velocity	4 mm/s
Maximum Cycle Frequency	2 Hz

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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.

Visit our website or contact us to learn how our innovative products can help you achieve your research and development goals.

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