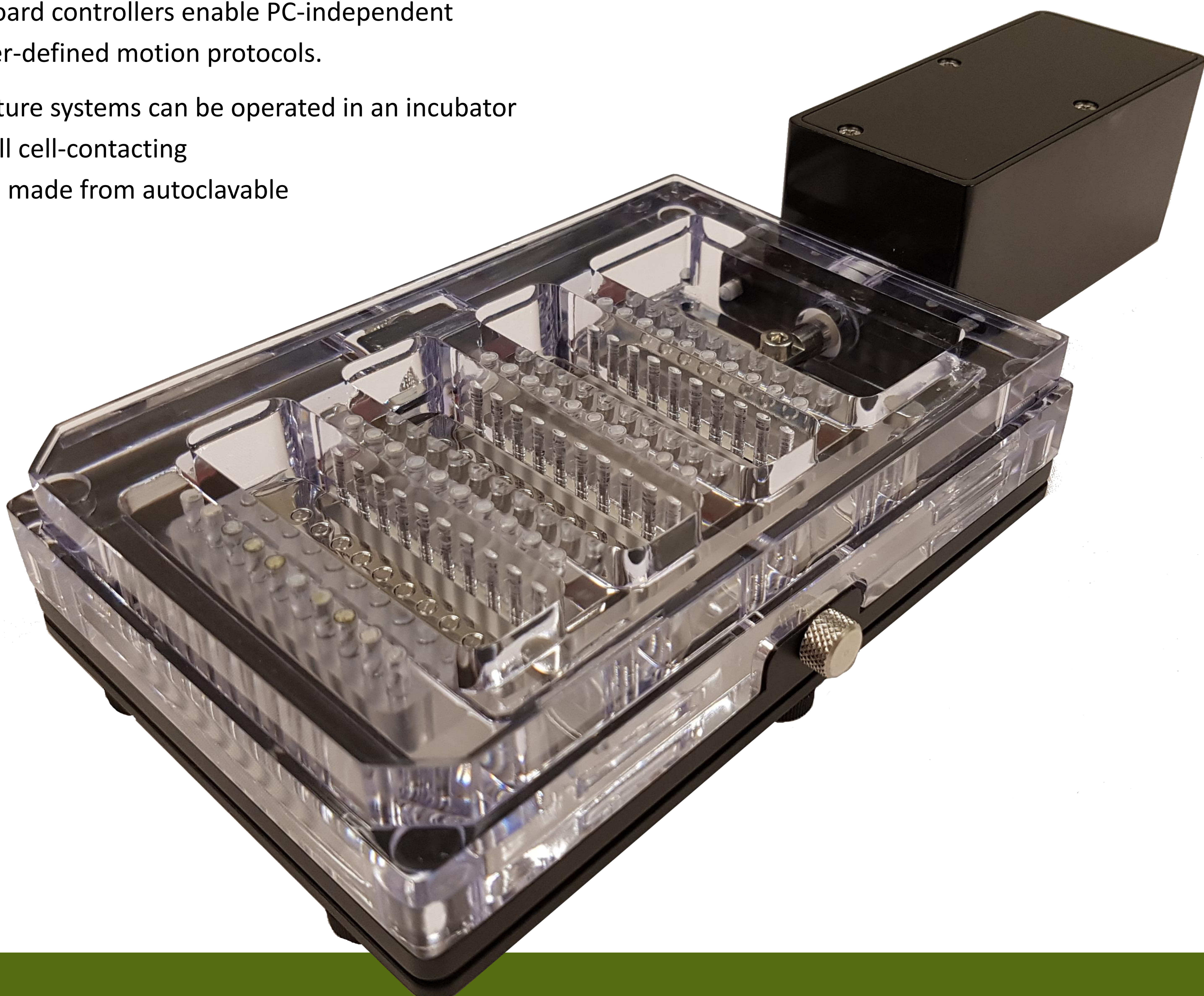




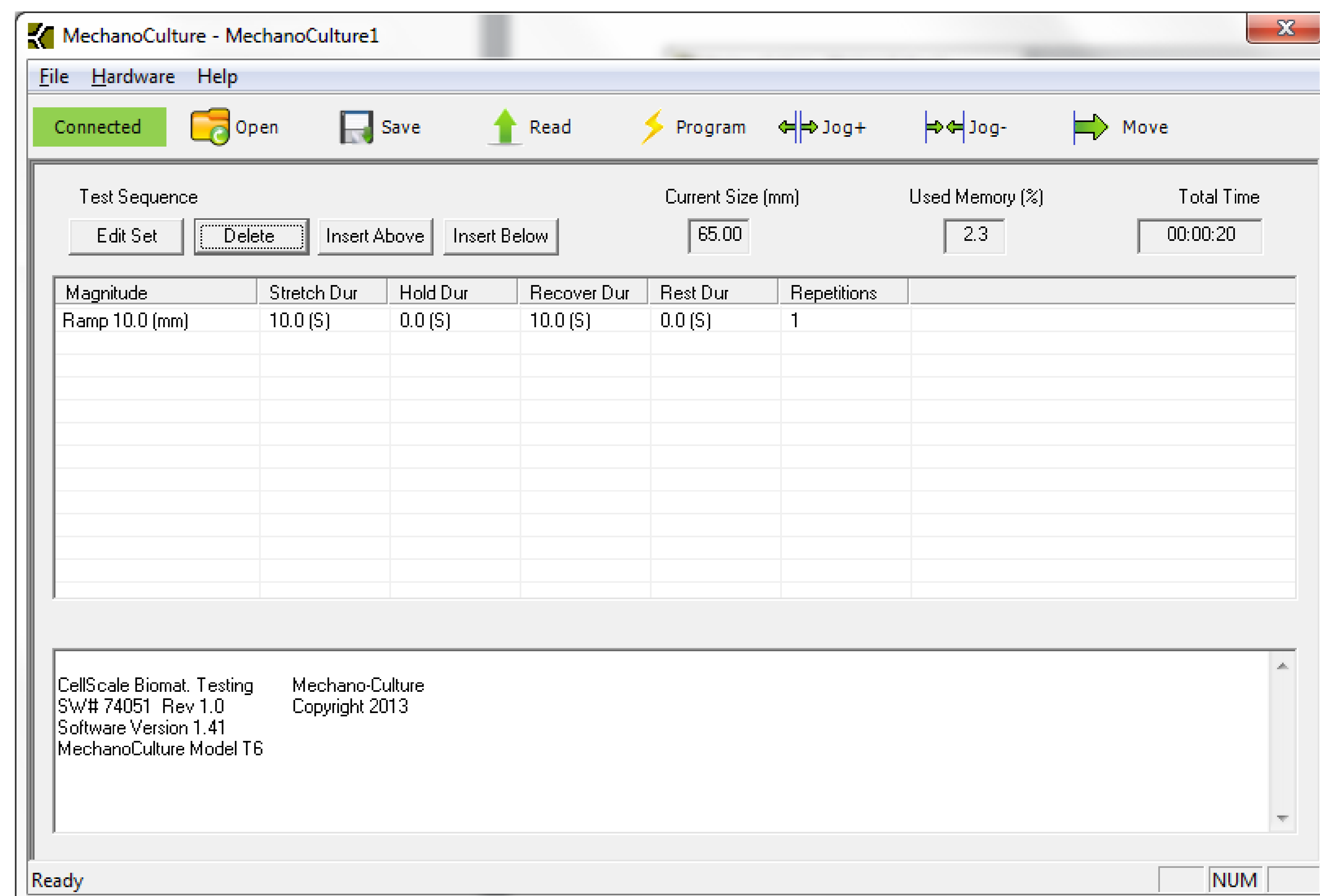
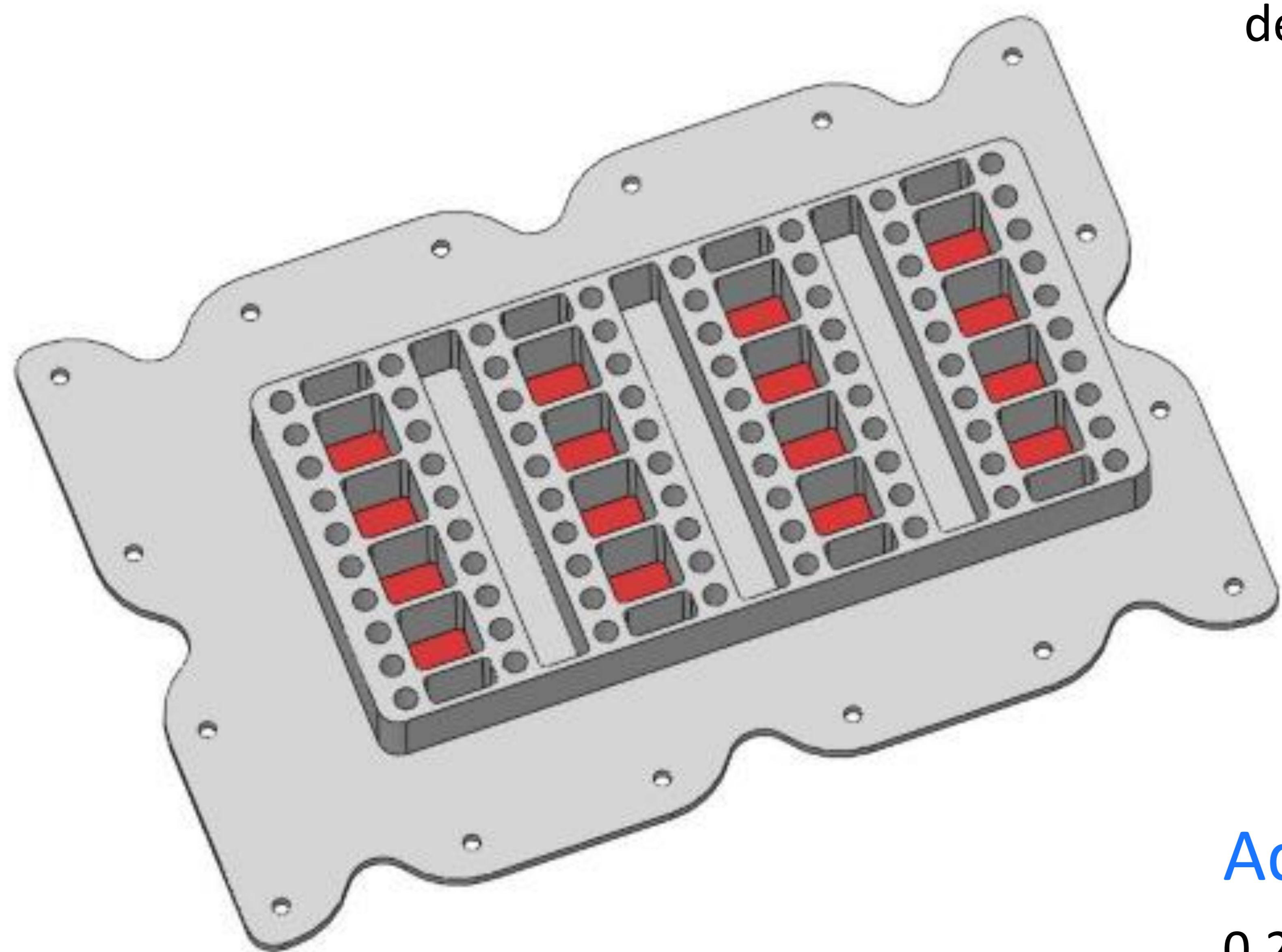
The MechanoCulture product group allows researchers to culture cells in a mechanically active environment. Configurations of these culture systems support single or parallel tests using a variety of flexible substrates and scaffolds. On-board controllers enable PC-independent execution of user-defined motion protocols.

All MechanoCulture systems can be operated in an incubator environment. All cell-contacting components are made from autoclavable materials.

The MechanoCulture FX can uniaxially stretch 16 wells while capturing images on an inverted microscope. The sterile single-use silicone plates have a thin transparent membrane that has similar optical properties to a glass coverslip.

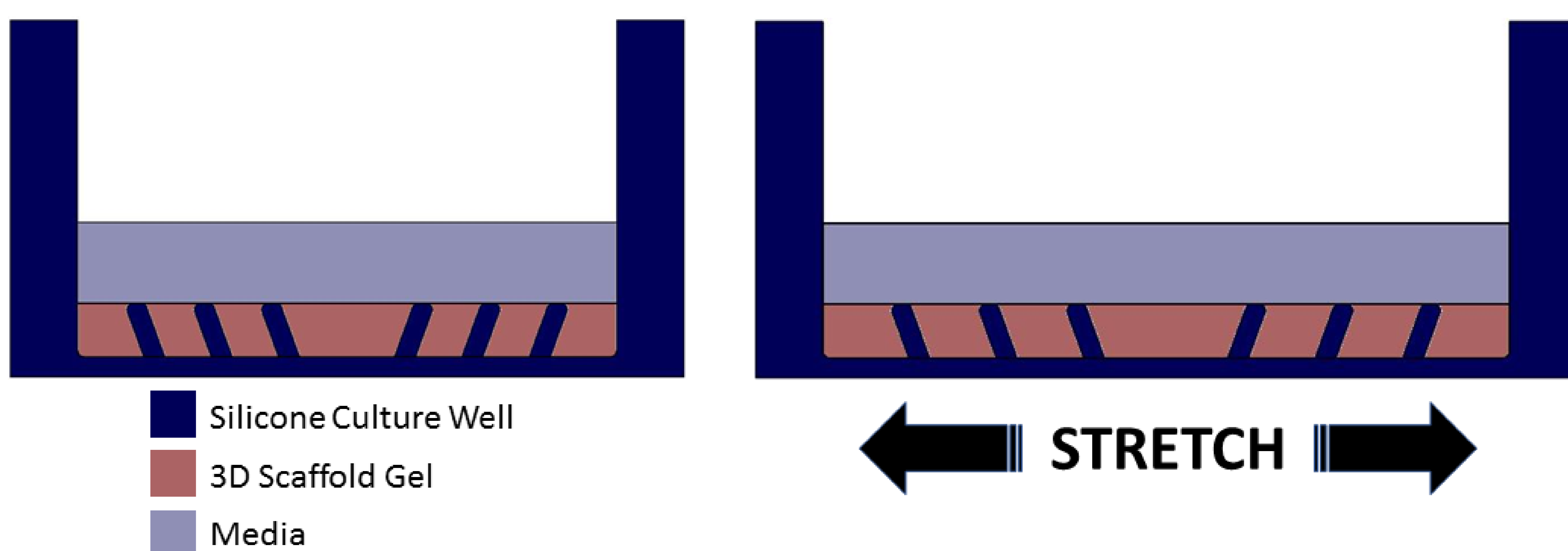
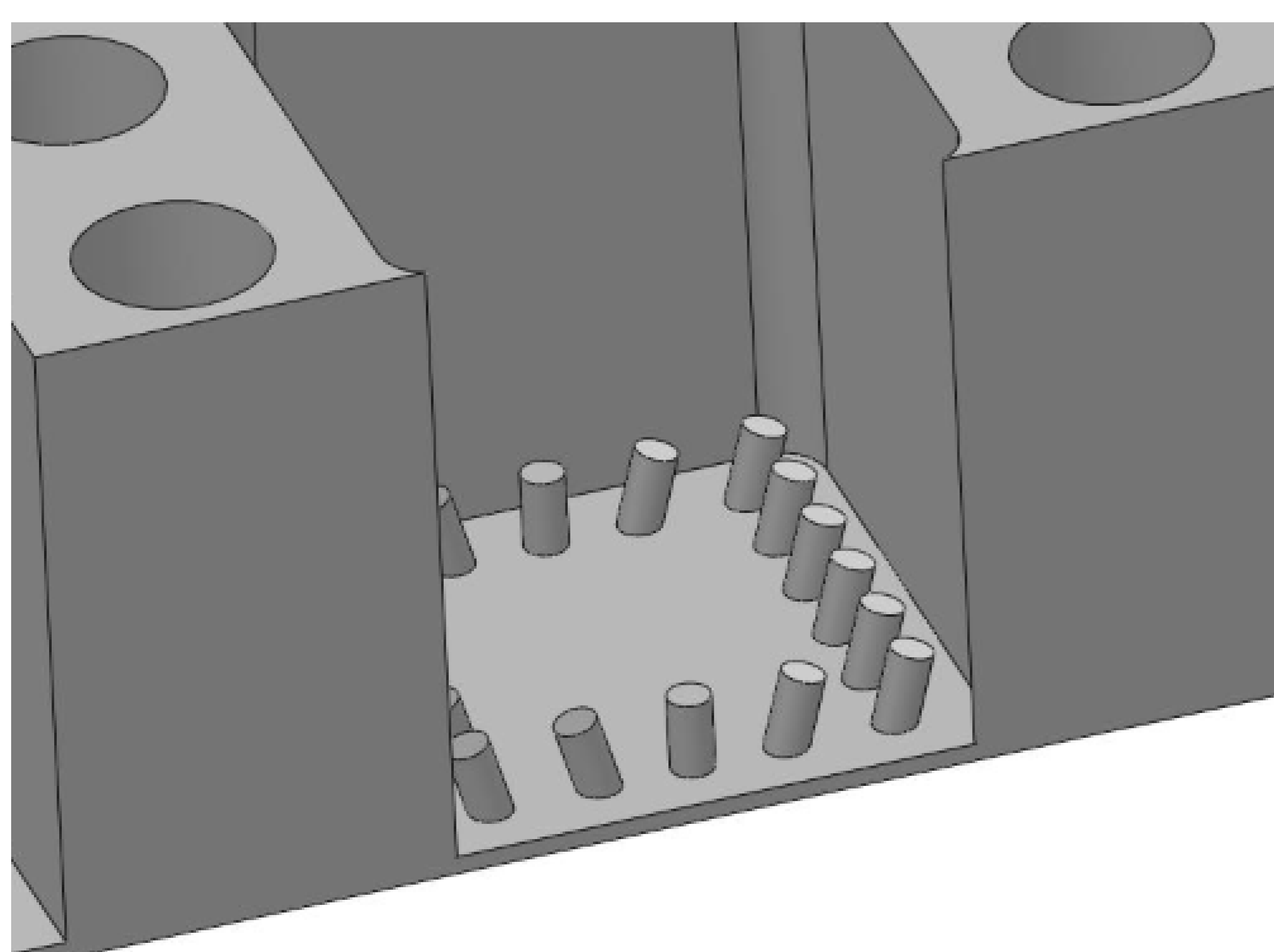


The MechanoCulture FX can be programmed to run constant velocity or sinusoidal stretch patterns. Magnitudes, frequencies, rest periods, and cycle counts can all be specified in the software application and programmed to the device.



Adhered cell monolayer cell culture in 8mm X 8mm wells with a 0.25mm thick transparent base membrane. 3D gel scaffolds fixed in the well using 18 micro-protrusions. The wells are top-accessible when loaded in the device for cell seeding and fluid exchange.

All components in contact with the culture can be autoclaved and the device can be operated inside an incubator environment.



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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