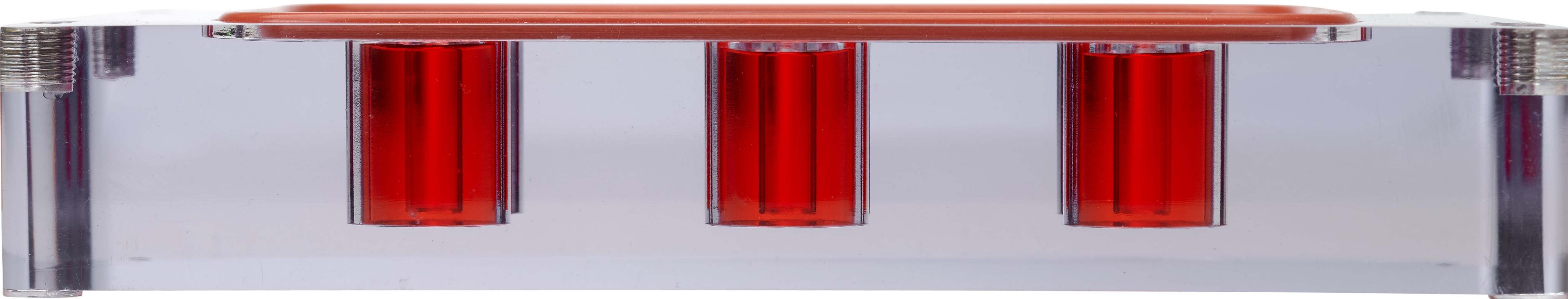
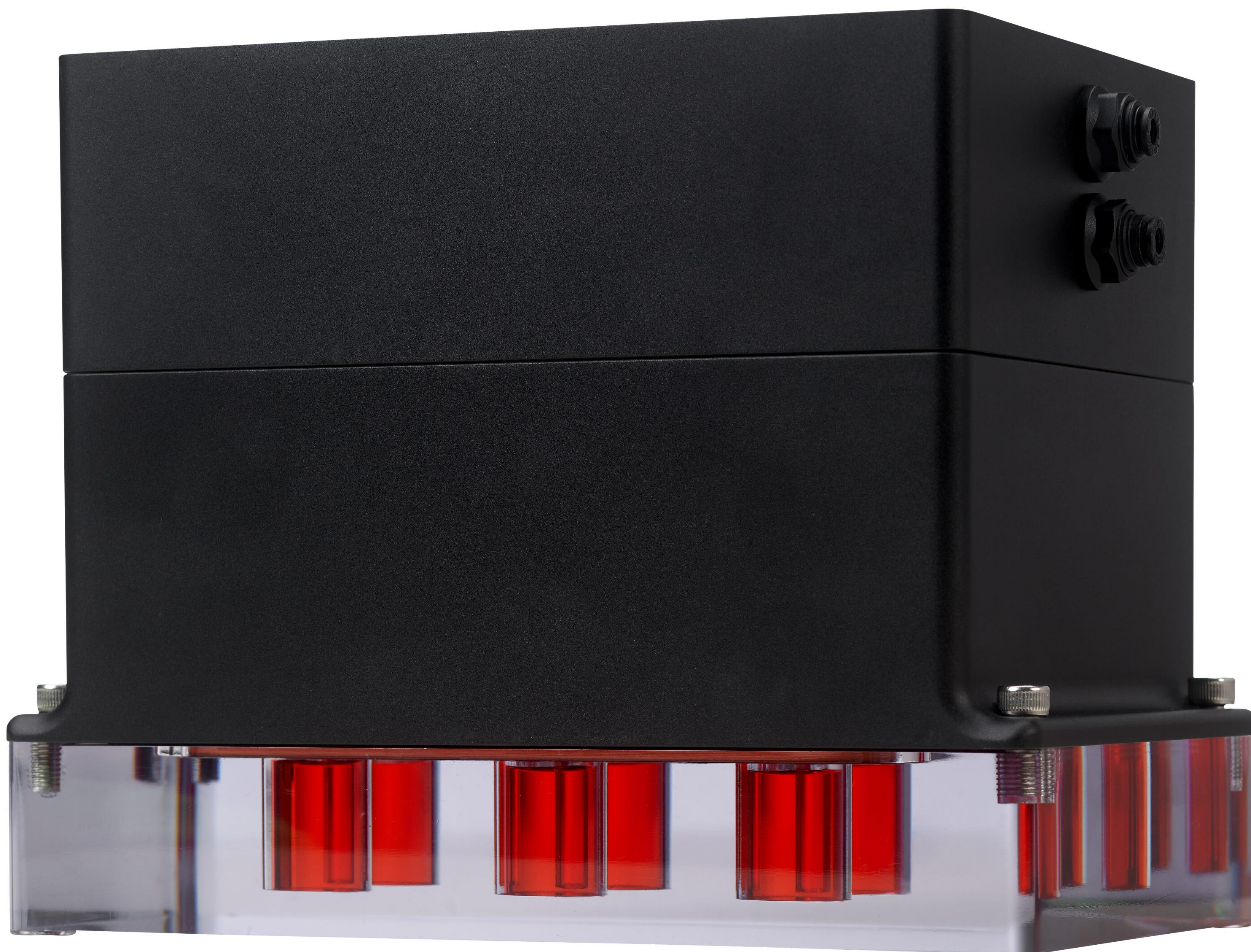


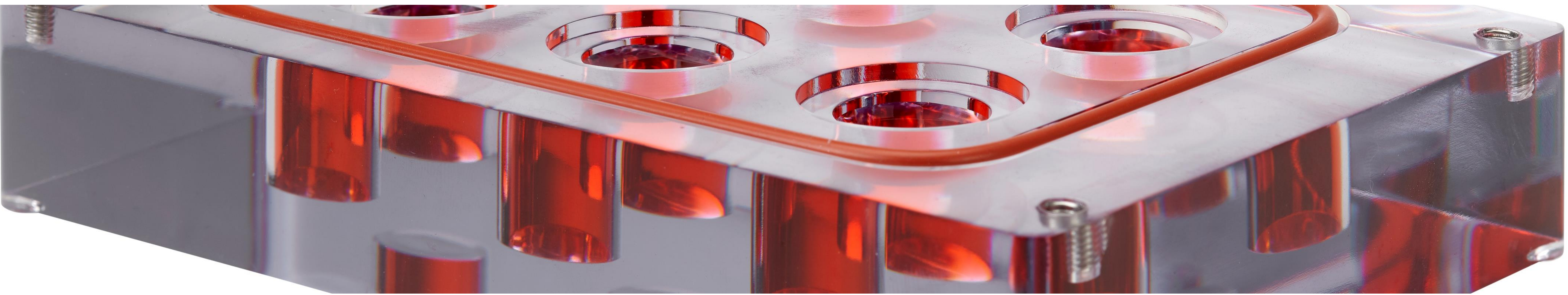
MechanoCulture TX



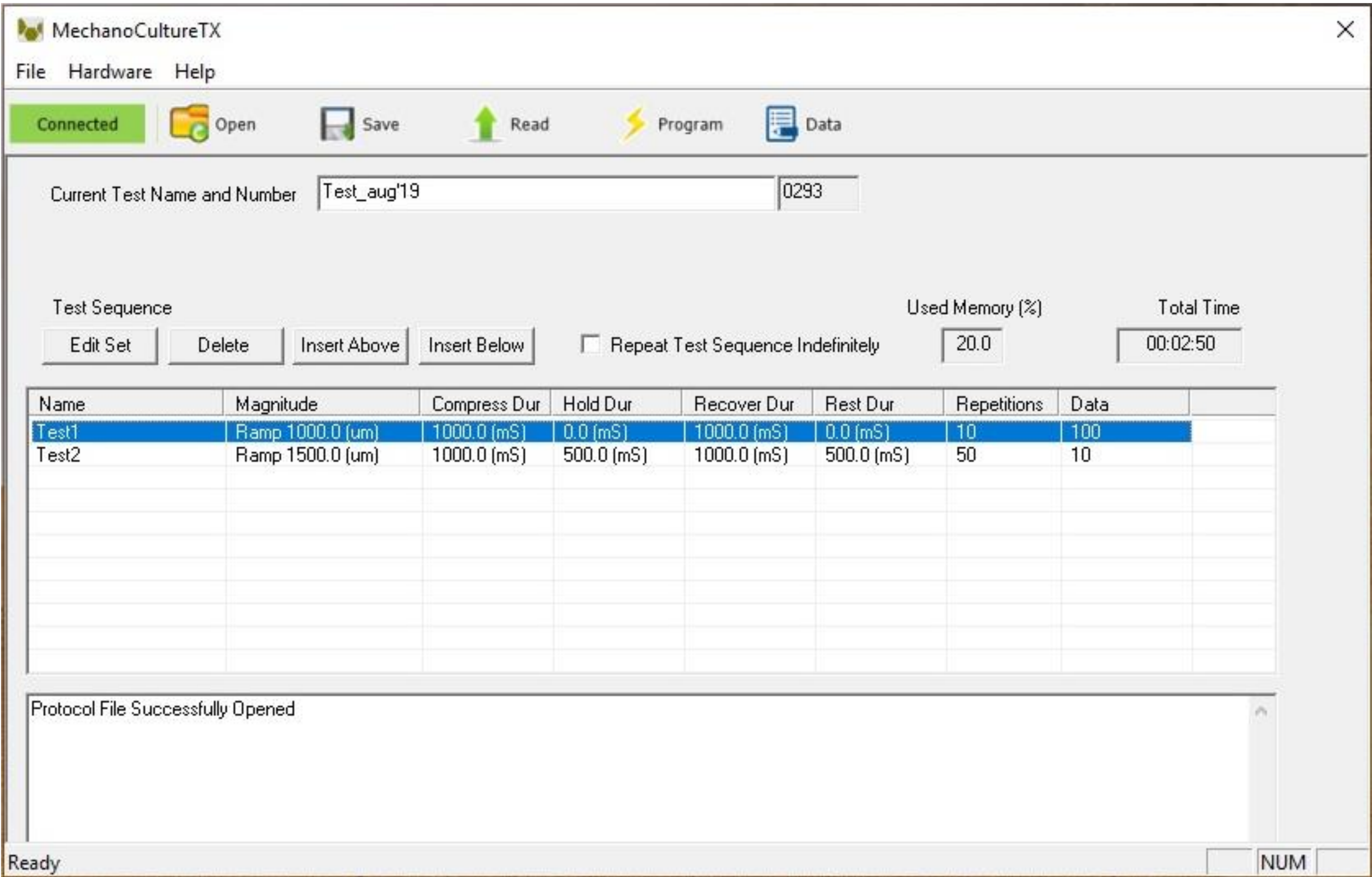
The MechanoCulture product group allows researchers to culture cells in a mechanically active environment. Configurations of these culture systems support single or parallel tests using a variety of flexible substrates and scaffolds. On-board controllers enable PC-independent execution of user-defined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

The MechanoCulture TX can uniaxially compress 3-dimensional specimens in 6 independent wells. During the compression stimulation protocols, force-displacement data is recorded in order to determine the stiffness profile of each specimen as a function of time. The well plate is highly polished to allow visual confirmation of proper specimen loading during setup and throughout the test.





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



Dimensions	16 x 19 x 16 cm
Weight	4.1 kg
Specimen Dimensions	Up to 20mm diameter/width and 25mm thick
Number of Wells	6
Available Load Cells	10 N - 100 N
Force Accuracy	Approx. 0.2% of transducer capacity
Maximum Displacement	2 mm
Maximum Velocity	4 mm/s
Maximum Cycle Frequency	2 Hz

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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