Columbus Instruments, LLC
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Grip Strength Meter

Force Gauge

Neuromuscular Testing in Rats and Mice

Grip Strength Meters are used to evaluate neuromuscular function by measuring the maximum force an animal exerts when gripping specially designed pull bar assemblies. Precise force gauges retain the peak force and present the data on a digital display.

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Enhanced Grasping Options Alternate between the classic pull bars described in the original work and the supporting optional mesh pull bars that have been found to allow easier grasping.

Versatile Operation and Comprehensive Package Automate data recording with a PC tethered operation or choose to operate as a stand-alone instrument. Software and all required cables are included.

Efficient Dual Sensor System Assess both fore- and hind-limb measurements in one pass of the animal with a dual sensor system.

Cost-Effective Single Sensor Solution Utilize a single sensor system as a low-cost solution in applications where non-concurrent measurement of fore- and hind-limb grip strength is tolerated.

Flexible Measurement and Precision Obtain readings in pounds, kilograms, or newtons. All values are accurate to within +/- 0.25% of full scale capacity. Force gauges are offered in 0-1Kg and 0-5Kg ranges.

Effortless Data Transfer Relay all data to your computer via USB, conveniently stored in an easily importable CSV formatted file for streamlined analysis.

Product Features

Hindlimb and forelimb pull bars are offered for both rats and mice. The wire diameterfor rats measures 0.125" while the wire for mice is 0.060".

Mesh forelimb and hindlimb pull bars are offered for both rats and mice. This assembly allows for easier grasping. Dimensions for hindlimb and forelimb assembly are 4.75" x 3.75" x 0.060" and 4.75" x 2.75" x 0.060", respectively.

Forelimb and hindlimb assessments can be performed concurrently using the dual sensor models or separately in distinct trials with the single stand model.