

ANIMAL GRIP STRENGTH SYSTEM

Measure hindlimb and forelimb grip strength in rats and mice



Grip Strength Platform with 2 gauges

Features & Benefits

- » 1 and 2 gauge systems measure both forelimb and hindlimb strength
- » Adjustable grips (0-45 degrees) provide maximum flexibility
- » Peak force values are preserved for recording
- » PC Interface provides automatic recording
- » Modular design makes cleaning quick and easy

PRODUCT OVERVIEW

SDI's Animal Grip Strength System measures hindlimb and forelimb grip strength. Gauge mountings are horizontally and vertically adjustable to accommodate both rats and mice. Two sets of walls for the center channel are included: tall for rats and short for mice. The white acrylic platform is easy to disassemble for cleaning. The Grip Strength Platform with two gauges is ideal for high throughput testing, allowing the user to test both hindlimb and forelimb strength in a single pass. The adjustable grip allows the user to position the angle of the grip between 0 and 45 degrees to obtain the optimal results.

Animal grip strength is recorded using a digital gauge with a PC interface. Use of the PC interface is optional. If the gauge is used in a manual mode the gauge has a 'peak hold' switch to lock the digital numerical display at the peak load reading. The gauge is single-ended and can be set to either compression mode (animal pushes on the grip, hindlimb) or tension mode (animal pulls on the grip, forelimb). The mode must be manually changed using controls on the gauge. After each test the peak force and animal Id must be recorded and the gauge must be manually reset to zero.

The testing procedure for the forelimb is to have the animal engage the grip and then pull the animal backward until release. For hindlimbs the animal is started in the middle of the platform and is pulled backward across the acrylic plate engaging the grip. The animal continues to be pulled backward until release.

Using the PC interface saves time as the software automatically senses compression or tension and records the peak value to the proper animal Id previously entered into the software. The gauge is automatically reset to zero to be ready for the next animal.

The gauge has the ability to measure strength in Kilograms, Grams, Pounds, Ounces and Newtons.

GRIP STRENGTH COMPONENTS

- > 1 or 2 Force Gauges
- > Adjustable grips
- > Adjustable width animal channel
- > Acrylic base
- > Software (with PC Interface option)
- > User Manual
- > All Cables and Connectors

GRIP STRENGTH SYSTEM SPECIFICATIONS

Outside Dimensions	26" (W) x 9" (D) x 9 1/2" (H)
Animal Channel Dimensions	Adjustable 1" to 5" (W)
Gauge Mount Dimensions	Adjustable 5 1/2" to 8 1/4"
Material Composition	Acrylic
Maximum # Stations	One
Standard Cable Length	6 ft. for digital gauge with PC output
Certifications	Factory calibration certificate on request
Color Options	White

GRIP STRENGTH DIGITAL FORCE GAUGE SPECIFICATIONS

MAXIMUM CAPACITY / RESOLUTION

Rats/ Mice	5K/resltn 1g, 50N/resltn .01N, 10 lb/resltn .01 lb
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GRIP STRENGTH COMPUTER REQUIREMENTS (for PC interface option)

Windows XP/Windows 7 compatible computer system with USB Port. Minimum disk and memory sizes specified to support Windows XP/Windows 7 are acceptable.

SDI CONFIGURED COMPUTERS

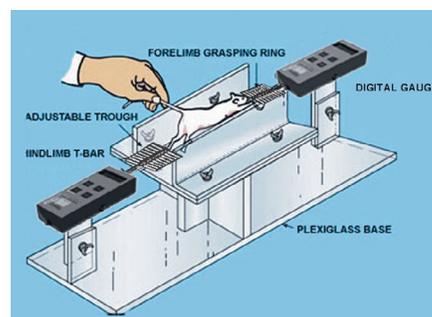
SDI offers high performance Cobalt™ Configured Computers that are pre-installed with the Windows® operating system and applicable SDI software. If required, SDI will pre-install PC Interface cards and all relevant drivers. Each computer is fully tested with your system prior to shipment. When your SDI system arrives, all you have to do is unpack it, attach the cables and begin testing.

FOR MORE INFORMATION

To learn more about SDI behavioral testing systems, please visit www.sandiegoinstruments.com. If you have any questions or would like to request a quote please call (858) 530-2600 or email us at sales@sandiegoinstruments.com.

SDI MOTOR & SENSORY TEST SYSTEMS

- › Animal Grip Strength System
- › Rotor-Rod™



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