

### Manual Lever & Hand Wheel Force Test Stands

**Shimpo's manual test stands offer the ability to obtain accurate, consistent results without the high cost of a motorized system.**

Our lever operated stands are ideal for rapid testing applications and the hand wheel stands are excellent for applications where more precise control is necessary.

Both the lever and the hand wheel stands are available in various capacities and can ensure accurate, consistent test results with the addition of a Shimpo Instruments digital or mechanical force gage.

Nearly all manufacturers' gauges are compatible with Shimpo's test stands for incredible versatility. These stands are designed for precision, balance, and durability. Therefore they are perfectly suited for measuring a limitless range of materials such as, wire, spring, plastic, paper cord, tubing, glass and composites.



**FGS-100H Hand Wheel Test Stand**



**FGS-100L Lever Test Stand**

#### Features

- Versatile bottom mount mounting plate permits acceptance of both standard and custom-made attachments
- Adjustable clearance setting enables testing on a wide range of samples
- Precision gear movement provides a consistent linear motion that produces repetitively accurate results
- Modular, compact design reduces footprint, weight and cost
- Sturdy all steel construction allows exceptional durability and extended life of the product
- Compatibility with many vendor's force gauges facilitates flexibility when replacing older test stands
- Optional digital length meter added to stand creates deflection measurement testing for applications such as spring rate testing



**FGS-50S Lever Test Stand**



**FGS-1000H Hand Wheel Test Stand**

#### NIDEC-SHIMPO CORPORATION

**INSTRUMENTS DIVISION** • Phone: (800) 237-7079 • Fax: (630) 924-0342 • [www.shimpoinst.com](http://www.shimpoinst.com)

Manual Lever & Hand Wheel Test Stand Specifications

|                    |                                        |                                                                    |                                                                |                                                  |
|--------------------|----------------------------------------|--------------------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------|
| Model              | FGS-50S                                | FGS-100L                                                           | FGS-100H                                                       | FGS-1000H                                        |
| Capacity           | 50 lb (22 kg)                          | 200 lb (100 kg)                                                    | 200 lb (100 kg)                                                | 1000 lb (500 kg)                                 |
| Stroke             | 1.97" (50 mm)                          | 1.97" (50 mm)                                                      | 0.12" (3 mm)<br>/wheel turn approx.                            | 6" ( 15.2 cm) 0.1" ( 2.5 mm)/ wheel turn approx. |
| Vertical Clearance | 1.6", 2.75", 3.94"<br>(40, 70, 100 mm) | 3.31 - 11.57" (84 - 294 mm)<br>8 steps, 1.18"/step<br>(30 mm/step) | 2 - 7.95" (52 - 202 mm)<br>6 steps, 1.18"/step<br>(30 mm/step) | Up to 13" (33 cm)                                |
| Product Weight     | 22 lb (10 kg)                          | 33 lb (15 kg)                                                      | 33 lb (15 kg)                                                  | 56 lb (25.4 kg)                                  |
| Warranty           | 2-Year                                 |                                                                    |                                                                | 1-Year                                           |

Ordering Details

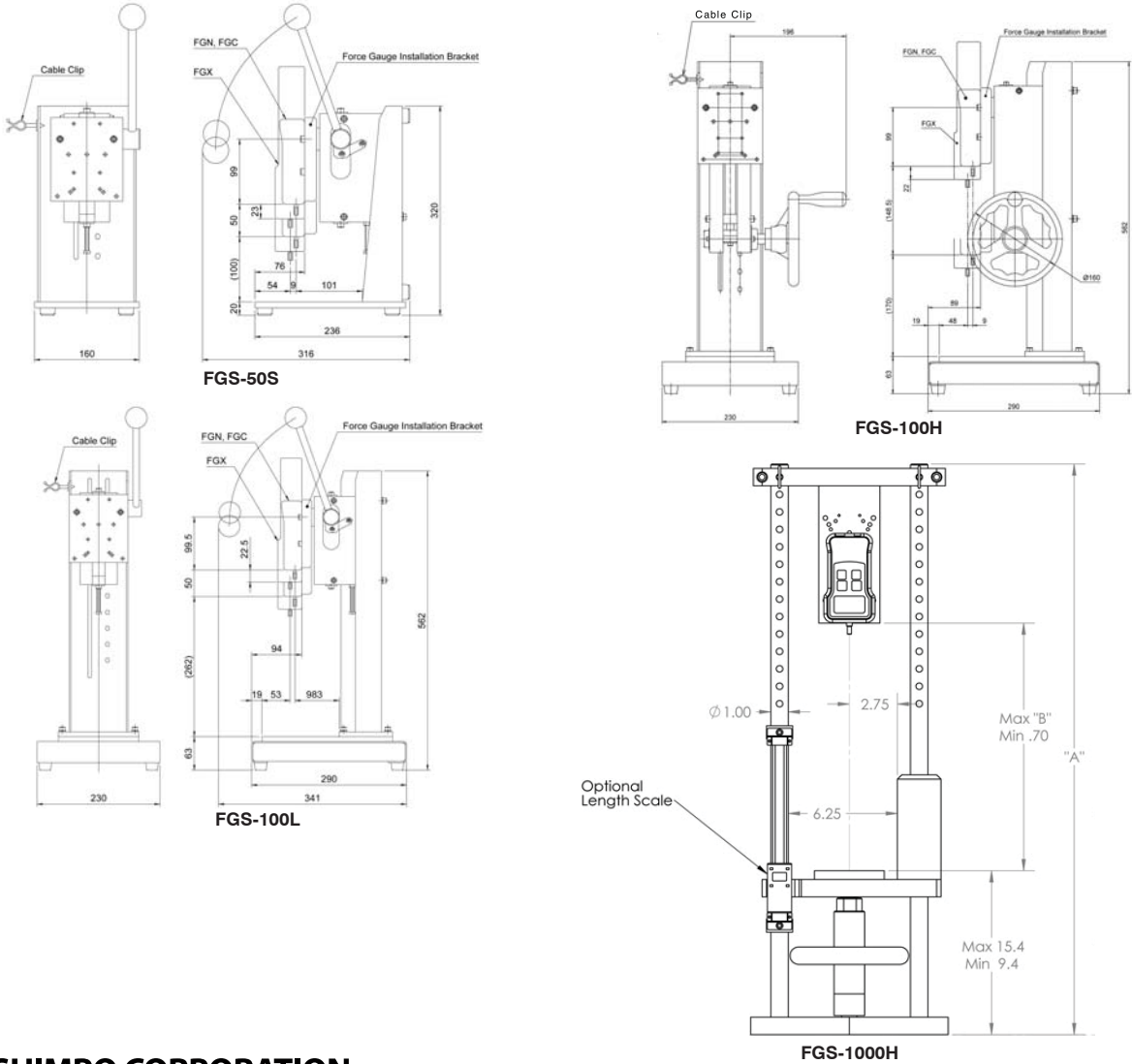
|           |                                                                |
|-----------|----------------------------------------------------------------|
| FGS-50S   | 50 lb (22 kg) Capacity Lever Operated Force Test Stand         |
| FGS-100L  | 200 lb (100 kg) Capacity Lever Operated Force Test Stand       |
| FGS-100H  | 200 lb (100 kg) Capacity Hand Wheel Operated Force Test Stand  |
| FGS-1000H | 1000 lb (500 kg) Capacity Hand Wheel Operated Force Test Stand |

Accessories

|              |                                                       |
|--------------|-------------------------------------------------------|
| FGS-LENGTH-H | Digital length scale for use with FGS-100H Test Stand |
| FGS-LENGTH-L | Digital length scale for use with FGS-100L Test Stand |
| UNI-PLATE    | Universal mounting plate for force gauges             |

\*For available force grips and adapters visit our website at [www.shimpoinst.com](http://www.shimpoinst.com)

Manual Lever & Hand Wheel Test Stand Dimensions



NIDEC-SHIMPO CORPORATION

INSTRUMENTS DIVISION • Phone: (800) 237-7079 • Fax: (630) 924-0342 • [www.shimpoinst.com](http://www.shimpoinst.com)