

Motorized Programmable Force Test Stands

Shimpo Instrument's advanced Motorized, Programmable Force Test Stands combined with our line of top quality force gauges, provide a complete force measurement system capable of handling the most precise testing applications. Their all steel construction makes them remarkably rugged while performing with precision. Programming capabilities provide the versatility to tackle a multitude of applications. Two modes of operation, single or continuous cycling allow for a single precise test or repetitive, consistent results. User selectable high and low force set points through RS232 interface or directly through the force gauge allows the test stand to stop at specific force loads while displaying and outputting the displacement. These motorized stands are offered in a wide range of force capacities in both vertical and horizontal configurations and are available in both standard and ultra-slow speeds.



**Series FGS-100PV
Vertical Motorized Test Stand**

Features

- 5 user programmable set points for speed, distance and stop time permit customized testing
- Compatibility with nearly all manufacturers' force gauges enables flexibility in testing applications
- Analog voltage output of displacement allows graphing and analysis of data on computer
- Manually adjustable upper and lower limits restricts movement, allowing for precise testing
- All gauge functions can be communicated through stand via RS232 interface allowing easy operation and data download
- Compact, modular design reduces weight, footprint and cost of stand



**Series FGS-100PX
Horizontal
Motorized Test Stand**

Horizontal Motorized Test Stand Specifications

Model	FGS-100PXH	FGS-100PXL
Operation Orientation	Horizontal	
Capacity	110 lb (50 kg)	
Travel Speed	-100PXH: 0.79 - 19.69 inch/min (20 - 500 mm/min); -100PXL: 0.19 - 4.72 inch/min (5.00 - 120 mm/min)	
Stroke	5.5" (140 mm)	
Display	Four digit LED, 0.41" high (10.5 mm), Reads in inches (0.01 resolution) or millimeters (0.1 resolution)	
Operating Mode	Manual (MANU), Jogging (JOG), Single (SING), Continuous (CONT), Program (PROG)	
Analog Voltage	Outputs the displacement of the stand 10mV/mm MAX: $\pm 1.4V$	
Communications	RS-232C	
Overload Input	Stops the operation of the stand when an overload condition is sensed from the FGV-XY force gauge. (Must use proper interface cable FGV-FGS250P between gauge and stand)	
Time Delay	0 through 5 second delay between direction change	
Power	120 VAC, 60 Hz	
Product Weight	40 lb (18 kg)	
Warranty	2 years	

Vertical Motorized Test Stand Specifications

Model	FGS-100PVH	FGS-100PVL
Operation Orientation	Vertical	
Capacity	110 lb (50 kg)	
Travel Speed	-100PVH: 1.57 - 15.74 inch/min (40 - 400 mm/min); -100PVL: 0.39 - 3.93 inch/min (10 - 100 mm/min)	
Stroke	5.5" (140 mm)	
Vertical Clearance	2.4 - 7.1" (51 - 181 mm) 5 steps, 1.18"/step (30 mm/step)	
Display	Four digit LED, 0.41" high (10.5 mm), Reads in inches (0.01 resolution) or millimeters (0.1 resolution)	
Operating Mode	Manual (MANU), Jogging (JOG), Single (SING), Continuous (CONT), Program (PROG)	
Analog Voltage	Outputs the displacement of the stand 10mV/mm MAX: $\pm 1.4V$	
Communications	RS-232C	
Overload Input	Stops the operation of the stand when an overload condition is sensed from the FGV-XY force gauge. (Must use proper interface cable FGV-FGS250P between gauge and stand)	
Time Delay	0 through 5 second delay between direction change	
Power	120 VAC, 60 Hz	
Product Weight	42 lb (19 kg)	
Warranty	2 years	

Ordering Details

FGS-100PXH	Horizontal Motorized Test Stand with standard speed and 110 lb (50 kg) capacity
FGS-100PVH	Vertical Motorized Test Stand with standard speed and 110 lb (50 kg) capacity
FGS-100PXL	Horizontal Motorized Test Stand with low speed and 110 lb (50 kg) capacity
FGS-100PVL	Vertical Motorized Test Stand with low speed and 110 lb (50 kg) capacity

Accessories

UNI-PLATE	Gauge mounting plate for FGS-100 Series Stands
FGV-FGS250P	Interface cable for FGS-100 force test stands
FGS-ANALOG	Analog output cable for force test stands
FG-250PV-RS232	RS-232 Communication cable from FGS stand to computer
FG-HORIZ-ADAP	Grip adapter for horizontal test stands