

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 (FGS-250PV Series is vertical only) configurations and are available in both standard and ultra-slow speeds.



Series FGS-100PV
Vertical Motorized Test Stand



Series FGS-100PX
Horizontal
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



FGS-250PV Motorized
Test Stand Shown with
Optional Force Gauge

Horizontal & Vertical Motorized Test Stand Specifications

Model	FGS-100PXH	FGS-100PXL	FGS-100PVH	FGS-100PVL
Operation Orientation	Horizontal		Vertical	
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); -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	N/A	N/A	2.4 - 7.1" (61 - 181mm) 5 steps, 1.18"/step (30 mm/step)	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)			
Time Delay	0 through 5 second delay between direction change			
Power	120 VAC, 60 Hz			
Product Weight	40 lb (18 kg)	40 lb (18 kg)	42 lb (19 kg)	42 lb (19 kg)

FGS-250PV Programmable Motorized Test Stand Specifications

Model	FGS-250PVL	FGS-250PVM	FGS-250PVH
Operation Orientation	Vertical		
Capacity	500 lb, 250 kg, 2,500N		
Travel Speed	-250PVL: 0.49 - 4.92 inch/min (12.5 - 125 mm/min); -250PVM: 1.97 - 19.70 inch/min (50 - 500 mm/min); -250PVH: 5.12 - 49.23 inch/min (130 - 1250 mm/min)		
Stroke	31.10" (790 mm)		
Display	Four digit LED, 0.41" high (10.5 mm), test stand can change English to metric		
Operating Mode	Manual (MANU), Jogging (JOG), Single (SING), Continuous (CONT), Program (PROG)		
Communication	Gauge: FGV, FGV-H. To PC: RS-232C (Baud rate: 9600bps, data length: 8 bit, stop bit: 1 bit, parity: none)		
Limit Switch Repeatability	-250PVL: $\pm 0.0006"$ (0.015 mm) at max. speed; -250PVM: $\pm 0.0016"$ (0.04 mm) at max. speed; -250PVH: $\pm 0.0036"$ (0.092 mm at max. speed)		
Zeroing Feature Repeatability	-250PVL: Max. 0.015" (0.383 mm) at max. speed; -260PVM: Max. 0.065" (1.649 mm) at max. speed; -250PVH: Max. 0.172" (4.355 mm) at max. speed		
Deflection	0.033" (0.85 mm) at max. capacity		
Power	120 VAC, 60 Hz		
Product Weight	-PVL: 115.7 lb (52.5 kg); -PVM: 115.7 lb (52.5 kg); PVH: 126.8 lb (57.5 kg)		

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
FGS-250PVL	Vertical Motorized Test Stand with low speed and 500 lb (250 kg) capacity
FGS-250PVM	Vertical Motorized Test Stand with standard speed and 500 lb (250 kg) capacity
FGS-250PVH	Vertical Motorized Test Stand with high speed and 500 lb (250 kg) capacity

Accessories

UNI-PLATE	Gauge mounting plate for FGS-100 Series Stands
FGV-FGS250P	Interface cable for FGS-100 & FGS-250 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

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