Box Opening Pressure Tester
Model: B0013

a measurable difference...

IDM® instruments

The Box Opening Pressure Tester has been designed to measure the opening force of flat stacked carton boxes. The Box Opening Pressure Tester is used for the development and quality control of cartons during production, there for speeding up production set-up time.

This motorized test stand is a highly configurable single column force tester for tension and compression measurement applications up to 300 lbF (1.5kN). It has a rugged design suitable for laboratory and production enviroments. With generous travel, clearance and depth dimensions, a wide range of tests can be performed, including break testing, cycling, limit testing to a load or distance, loadholding, elongation testing, tensile testing, compression testing and more.

Force and travel data can be output to a PC for graphing and analysis using MESUR™ gauge software or fully control the stand by a PC through custom written program.

Applications:

• Cartons

Features:

• Small and medium hook
• Limit switches
• Simple controller interface
• Peak readings and set points always displayed
• Programmable travel limits
• Overload protection
• Auto return
• Break detection
• Selectable speed setting
• Password protection
• Stepper motor driven
• USB output
• Configurable audio alarms and key tones
• Large backlit graphic display
• 1,000 point data memory with statistics and outputs
• Averaging mode
• 5 selectable units of measurement
• External trigger mode
• Adjustable, removal controller with intuitive menu navigation

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Simple controller interface
Rugged aluminium up/down/stop keys are designed for industrial environments. Zero travel and FollowMe™ keys add convenience. It can also be removed for remote use.

Limit switches
Adjustable upper and lower solid state limit switches stop test stand travel with 0.001 in. repeatability.

Test Stand Specifications:

Load capacity:	200 lbF (1 kN) @ >24 in/min (610 mm/min)
Maximum travel:	18.0 in (457 mm)
Speed range:	Standard: 0.5 - 13 in/min (13 - 330 mm/min) Optional: 0.02 - 45 in/min (0.5 - 1,100 mm/min
Speed setting accuracy:	±0.2% of setting
Speed variation with load:	±0% (stepper motor driven)
Travel accuracy:	±0.002 in per 10 in (±0.05 mm per 250 mm)
Travel resolution:	0.001 in / 0.02 mm
Limit switch repeatability:	0.001 in (0.03 mm
Max sample size:	

Force Gauge Specifications:

Accuracy:	**±0.1% of full scale ±1 digit**
Sampling Rate:	7,000 Hz pulse response of 1/3,500 sec. min
Outputs:	**USB / RS-232:** Configurable up to 115,200 baud. Automatic output available up to 250 Hz. Includes Gauge Control Language 2 for full computer control. **Mitutoyo (Digimatic):** Serial BCD suitable for all Mitutoyo SPC-compatible devices. **Analog:** ±1 VDC, ±0.25% of full scale at capacity, **General purpose:** Three open drain outputs, one input. **Set points:** Three open drain lines.
Safe overload:	150% of full scale (display shows "OVER" at 110% and above)

Options:

- Software
- Computer Control (if software is purchased)
- Force Gauge Ranges

Connections:

- Universal input 80-240 VAC, 50/60 Hz

MESUR™gauge data collection software
Output force vs. time or force vs. distance data from the USB port. MESUR™gauge graphs, tabulates, calculates statistics, and provides reporting and output tools.

Dimensions:

- **H: 73cm** x **W: 42cm** x **D: 36cm**
- **Weight: 26kg**