

TESTING INSTRUMENTS FOR  
*A MEASURABLE DIFFERENCE...*

**IDM**  
instruments

## **BOX OPENING PRESSURE TESTER**

**MODEL: IDM-B0013-M1**



## INTRODUCTION

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 environments. 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, load holding, elongation testing, tensile testing, compression testing and more.

## FEATURES

- Small and medium hook
- Limit switches
- Simple controller interface
- Peak readings and set points always displayed
- 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



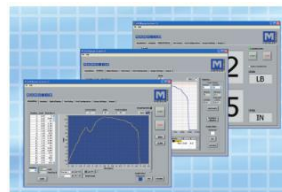
### Simple controller interface

Rugged aluminum 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.



### 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. 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.

## OPTIONAL FEATURES

- **IDM-B0013-OP1** - MESUR™ gauge software
- **IDM-B0013-OP2** - Computer control (only if software is purchased)
- **IDM-B0013-OP3** - Programmable travel limits
- **IDM-B0013-OP4** - Travel indication

## SPECIFICATIONS

### Test Stand

Load capacity	200 lbF (1 kN) @ >24 in/min (610 mm/min)
Maximum travel	18.0 in (457 mm) without fixtures
Speed range	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)

### Force Gauge

Range	0.12 lb to 2,000 lbF (0.5 N to 10 kN)
Accuracy	±0.1% of full scale ±1 digit
Sampling Rate	7,000 Hz pulse response of 1/3,500 sec. min
Outputs	<ul style="list-style-type: none"> <li>• <b>USB / RS-232:</b> Configurable up to 115,200 baud. Automatic output available up to 250 Hz. Includes Gauge Control Language 2 for full computer control.</li> </ul>
Safe overload	150% of full scale (display shows "OVER" at 110% and above)

## CONNECTIONS

- Electrical: 220/240 VAC @ 50 HZ  
or  
110 VAC @ 60 HZ  
(please specify when ordering)

## DIMENSIONS

### Instrument:

- H: 730 mm
- W: 420 mm
- D: 360 mm
- Weight: 26 kg

### Packaged:

- H: 330 mm
- W: 540 mm
- D: 990 mm
- Weight: 31 kg

## WARRANTY AND CALIBRATION SERVICES

- **1 year Warranty**
- Our **Preventive Maintenance and Calibration (PM&C) program** has been designed to make the maintenance and calibration of your valuable testing equipment more cost effective by preventing breakdowns and downtime by regular calibration, service and replacement of defective parts. Talk to us about this today.