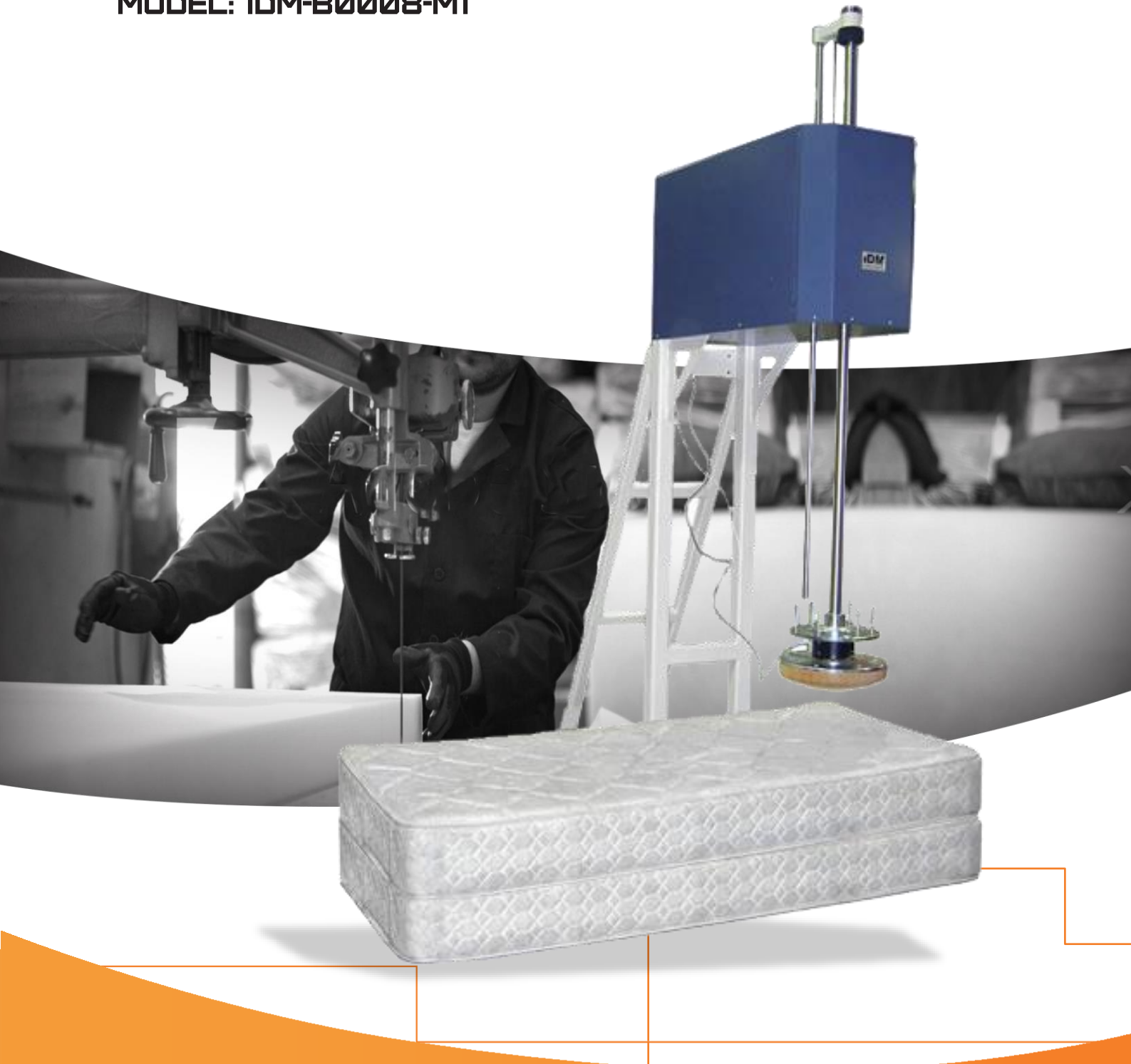


TESTING INSTRUMENTS FOR
A MEASURABLE DIFFERENCE...

IDM
instruments

MATTRESS IMPACT TESTER

MODEL: IDM-B0008-M1



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INTRODUCTION

The Mattress Impact Tester has been designed and manufactured to perform various tests and evaluations of innerspring and box spring mattresses, as well as foam mattresses, chairs, cushions and other similar products.

The machine consists of a 79.5 ± 1kg platen, which drops down and impacts the test specimen from various heights as selected by the operator. This allows comparison of results obtained by impacts from different heights. The machine can be used to impact any locations on the specimen, including middle areas, corners, and edges to compare performance of both inner and outer components. The machine operates by testing each product at the same position once a location is set for comparison.

The machine automatically configures impact height measurements from the top of the specimen at every location that is being tested. Once the top of test location is configured, impact heights can be increased in set increments until the test is complete.

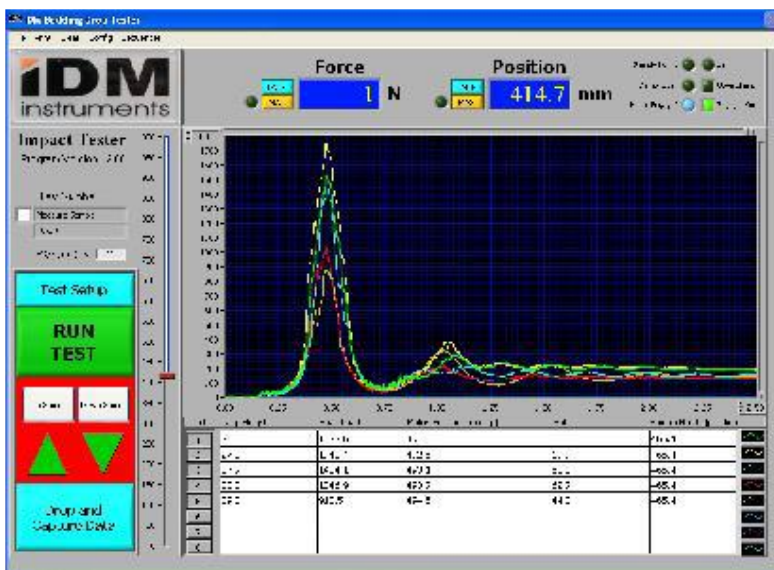
Once a series of drops have been made at different locations, comparisons can be achieved. These include the permanent set of support elements or grid/platform, fastener failure, separation of support components from grid/platform or frame, and broken end or separated frame components.

The Mattress Impact Tester can perform tests that give a wide range of results to help determine product performance and quality. Tests and results include:

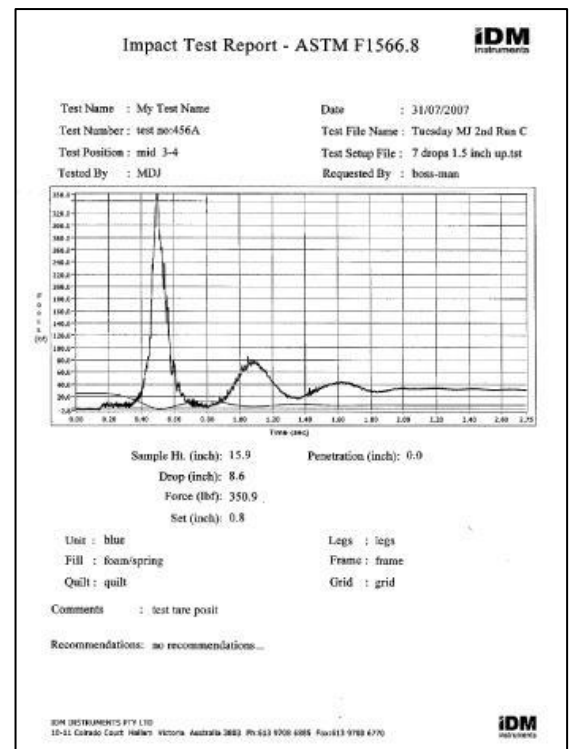
- Bounce Decay Time
- Shock caused by impact
- Effect different bases have on bounce and shock caused by impact
- Testing the overall strength of a mattress set to withstand forces exerted by a person jumping on the mattress
- Tests can be used on mattress bases if it is sprung or flexible
- Test reports can be viewed to display Force over Time and Force over Distance

TEST RESULTS & SOFTWARE FEATURES

The Mattress Impact Tester operates manually or automatically using an external PC linked to the machine. The software allows operators to run tests using the computer and displays results as a graph as well as a table for test data. The software also enables tests to be printed and saved for later retrieval.



Sample Test Screen



Sample Test Report

APPLICATIONS

- Innerspring Mattresses
- Boxspring Base
- Foam Mattresses
- Chairs

STANDARDS

- ASTM F1566
- AIMA American Innersprings Manufacturers
- JIS K 6400

FEATURES

- Drop test platen 14" diameter
- Computer operated software
- Ease of operation
- Data storage
- Printable test graphs
- Pezio Load Cell
- Can be used on mattresses with a height of up to 600mm.

***(Please specify if other heights are required)

DIMENSIONS

Instrument:

- H: 3615 mm
- W: 650 mm
- D: 1978 mm
- Weight: 500 kg

Packaged:

- H: 1600 mm
- W: 2600 mm
- D: 1000 mm
- Weight: 1000 kg

CONNECTIONS

Air: 80 Psi (550 kPa)

Electrical: 220/240 VAC @ 50 HZ

or

110 VAC @ 60 HZ

(please specify when ordering)

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.