

Foam compression tester

Car seats, mattresses

Model: F0013

According to the relevant standards, the Foam Compression Tester is used to measure the degree of strength of foams in the foam and furniture industry, either in the laboratory or on the production line.

This universal strength and hardness measurement is based on the physical property of compression force deformation. It is determined by measuring the force required to deform the circular to lower the circular specimen by a percentage of its thickness. of its thickness.

A force is applied to the specimen while the indentation distance is measured.

indentation distance is measured. In order to compare the test results test results, the test pieces must be of the same size and thickness. be the same. In the case of foamed molds, the entire article can be used.



Software package:

The foam compression tester offers a variety of Software features that allow programming of parameters, operation control and real-time display of the test in progress.

test. This software package allows the operator to perform a wide range of tests with an almost limitless range of test parameters and to display test information when

display test information when used with a compatible PC. On the PC, the IDM Instruments Pty Ltd. is installed to control the instrument.

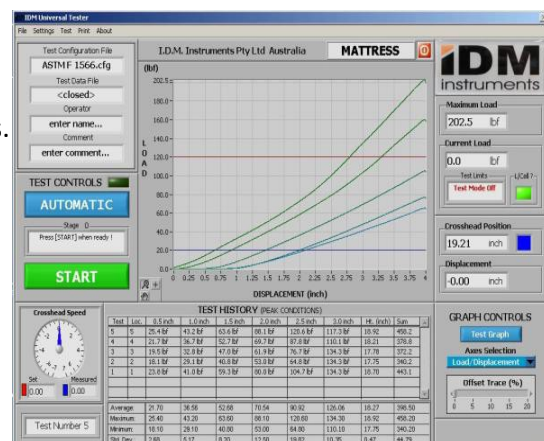
developed by IDM Instruments Pty Ltd. is installed on the PC to control the instrument.

The test configuration is prepared for each test sample.

Values such as the test type, the sample piece, the sample size, the standard reference as well as the operating parameters and and many other values, can be entered in the configuration window and saved in the configuration window to be reused at a later time. to be reused at a later time.

Once the test configuration menu has been programmed, the Start" button is pressed and the test begins. The software program for the foam compression tester works automatically.

The test results are displayed on the PC in real time. displayed. They can then be saved and / or printed out. be printed.



Software:

- Adjustable data sampling from 1-200,000 Hz.
- Position or load control
- Simultaneous display of test parameters with diagram
- Real-time graphical data display
- Selectable graphical display
- Data exportable to Excel
- Automatic stop when range is exceeded
- Automatic return after test selection
- Calibration file for instrument calibration
- Statistical analysis
- Printable reports
- Windows-based software
- Overlay of data curve during test
- Programmable ISO and ASTM test methods
- User specific test methods are programmable
- Cyclic tests with data recording during the run



Applications:

- Soft cell polyurethane
- car seats
- bicycle seats
- mattresses
- furniture
- Chairs
- springs

Characteristics:

- Large support table that allows for any test width
- Easy to operate
- Test capability for specimens of different sizes
- $322 \pm 2\text{cm}^2$ circular indenter (8" \varnothing)
- Computer hardware and 19" flat screen

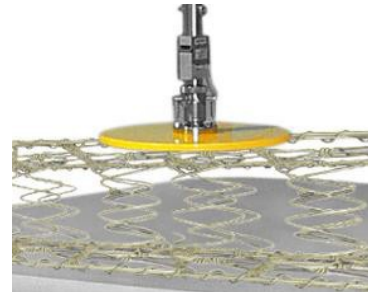
Accessories:

- Pressure cells
- Custom plate mountings
- Plate: $\varnothing 13.5"$



Specifications:

Load system:	Ball screw and nut for the vertical movement controlled by a Closed loop microcontoller
Maximum load:	0-2224N
Working stroke approx::	750mm x 0.1mm
Speed::	0.05 bis 500 mm/min
Reverse speed::	500mm/min
Measuring accuracy of the load system	$\pm 0.5\%$ of the specified value or $\pm 0.1\%$ of the final value
Automatic zero setting:	Via pressure cell
Max. Stroke limiter:	Top/bottom
Safety function:	Overload check during tests



Dimensions:

- H: 2925mm
- W: 2500mm
- D: 1350mm
- Weight: 245kg

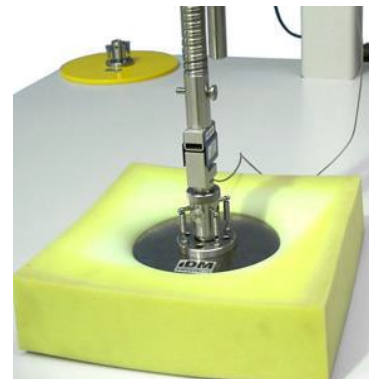
Connections:

Electrical:

240 VAC @ 50 HZ or

110 VAC @ 60 HZ

(Please specify when ordering)



Standards:

- AS 2281- AS 2282.8 - ASTM F1566 - ASTM D3574 -- Test B.
- ISO 3386:1984 - ISO 2439 - BS EN 1957:2000 - GB 10807
- JIS K 6400

Advantages:

- Easy operation
- Fast results
- Accurate, reproducible



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Environmental conditions:

- Operating temperature: -10°C to 55°C
(no condensation or icing)
- Ambient humidity: 25% to 65
- Storage temperature: -25°C to 65°C
(no condensation or icing)

