

# Foam Compression Tester

## Model F0028

*a measurable difference...*

**IDM**<sup>®</sup>  
instruments

The IDM Foam Compression Tester is used for determining the deflection force of flexible cellular polyurethane. The ILD or IFD of flexible cellular polyurethane is a common test, as per ASTM, ISO, AS, BS international standards.

This instrument offers a variety of software features that allows programming of many parameters, using the **Universal Tester program** developed by IDM Instruments Pty Ltd<sup>®</sup>. This software package allows the operator to conduct a large range of tests with an almost limitless array of test parameters and displayed test information when used with a compatible PC. Test Configurations are prepared for each test type. This procedure is then fully automated.

The test scripts as well as the operating parameters are entered in the Configuration Panel to run a test. Values including the test type, sample piece, sample size, standard reference and many more values can all be entered and also saved to be retrieved at a later stage.

The Software Program for the Foam compression Tester is automatic. Once the Test Configuration menu has been programmed, "Start" button is pressed, initiating the test. The results of the test are displayed on the PC in real time. They can then be saved and/or printed for later use.



### **Benefits:**

- 5 pre-programmed testing procedures
- Bench top operation
- Printable reports
- Easy to use
- Fast results
- Accurate



### Applications:

- Flexible cellular polyurethane
- Latex foam
- Rubber Foam
- Carpet underlay
- Foam components

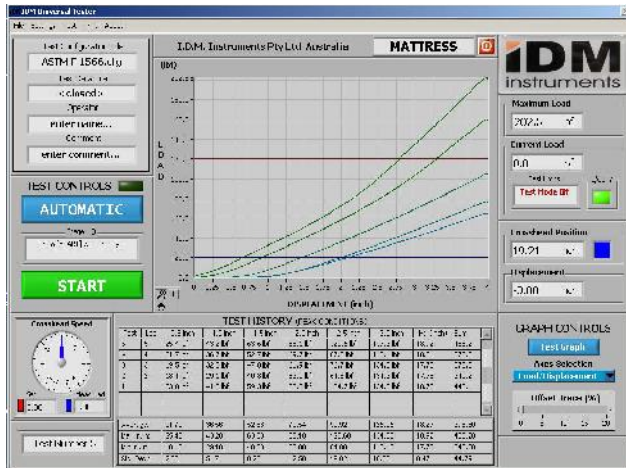
### Options:

- Swivel Platen: 322 ± 2cm<sup>2</sup> (8" Ø)
- Fixed Platen: 322 ± 2cm<sup>2</sup> (8" Ø)
- Custom platen fixtures available on request
- Custom size indenter available on request
- Load Cell
- Test area width: 450mm  
750mm  
1,000mm

*(please specify options required at time of quotation)*

### Features:

- Loading System – closed loop micro computer which drives a ball screw and nut for its vertical movement.
- Load Cell Range: 0-2224N x 0.1N ±0.5%FS
- Travel (mm) approx.: 200mm x 0.1mm ±1%FS
- Speed (mm/min) 1 to 500 mm/min
- Return Speed (mm/min) 500mm/min
- Speed Accuracy better than +0.5% ±1%FS
- Load auto-zeroing
- Safety function for overloading provided
- Max. Stroke Limiter upper/lower – 2 points
- Compression platens area:  
400mm x 400mm
- 322 ± 2cm<sup>2</sup> circular indenter foot (8" Ø)
- Test area of 500mm wide and not restricted at front and rear
- PC supplied (with 19" flat screen monitor)



Foam Compression Tester sample test screen

### Software Features:

- Data Sampling is adjustable from 1-200,000Hz
- Position or Load control
- Test parameters displayed with graph simultaneously.
- Real time graphic display of data
- Selectable graphical display presentation
- Data can be sent to Excel
- Out of range stop
- Auto return after a test is selected
- Calibration File to calibrate the instrument
- Statistical analysis
- Printable Reports
- Windows based software
- Overlay display of data curve possible during test
- Test Methods programmable
- Other test methods programmable by the operator.
- Cyclic testing with data recording during cycle

### Standards:

- AS 2282.8
- AS 2281
- ASTM D3574
- ISO 2439: 1997
- ISO 3386: 1984
- GB 10807
- JIS K 6400

### Connections:

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

### Dimensions:

- **H:** 600mm
- **W:** 500mm
- **D:** 500mm
- **Weight:** 65kg