



IDM's Box Compression Testers are floor-mounted machines designed to evaluate packages and material under compressive loads.

One platen is supplied with the machine which can be fixed or floated, as well as a base platen with the same dimensions.

Box Compression Testers use a servo electric system to apply a precise linear motion and force.

Applications:

- Box Compression
- Stack Testing
- Multi-box Compression



Specifications:

Model No:	B0009	B0010	B0011
Maximum Capacity:	50kN	50kN	100kN
Force Resolution:	0.01 x kN		0.01 x kN
Force Accuracy:	± 1% F.S.		
Max. Test Area:	D: 1000mm W: 800mm H: 1200mm	D: 1250mm W: 1250mm H: 1200mm	
Position Repeatability:	0.2mm		
Position Measuring Accuracy:	±0.1mm		
Variable Test Speed:	0.1 – 250mm/min		
Speed Accuracy:	0.5% F.S.		
Crosshead Return Speed:	500mm/min		
Platen Size:	1000mm x 800mm	1250mm x 1250mm	
Voltage Supply:	220/240 VAC @ 50HZ 110 VAC @ 60HZ		
Machine Weight:	550kg	560kg	580kg
Machine Dimensions:	D: 1000mm W: 1100mm H: 2500mm	D: 1250mm W: 1350mm H: 2500mm	



Standards:

- AS130-1-800s
 - ASTM D642
 - ASTM D4169
 - TAPPI T804
 - ISO 12048:1994
- * Other standards available upon request*



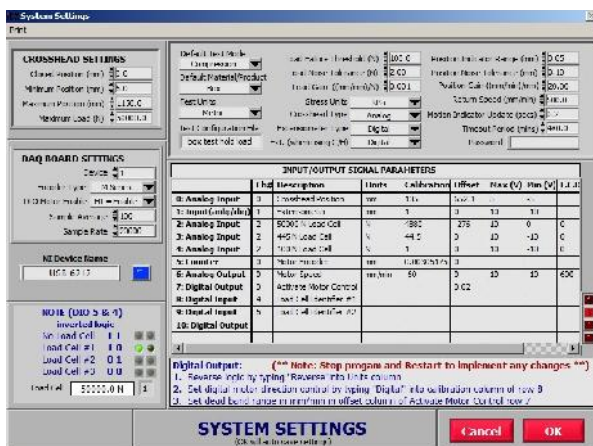
Features:

- Four precision load cells are used to measure the applied force
- Precise linear transducer measures the test sample deflection
- Strong A-frame construction.
- Motor driven ball screws, for fast and accurate operation, reposition the crosshead assembly.

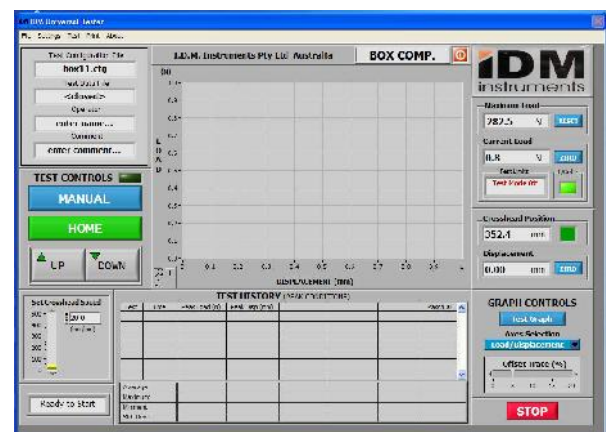
Computer Software:

The software used with the Box Compression Tester is the IDM Instruments Universal Tester Software, having the following specifications:

1. Data sampling is adjustable from 1 – 1000 Hz
2. Test parameters displayed with graph simultaneously
3. Overlay display of data curve possible during test
4. AS and ASTM Test Methods pre – programmed
5. Other test programs can be programmed by the operator
6. Calibration File to calibrate the unit
7. Position, Load or Strain rate control
8. Real time graphic display of data
9. Selectable graphical display presentation
10. Data can be read in Excel
11. Out of range alarm and stop
12. Auto return after a test is selected



System Settings



Software Program



Data Output:

1. Force & Deflection
2. Digital display, peak load/position
3. Digital display & XY Graph
4. Statistical Output (on screen or print)
5. Print options: any test screen or statistics.

Operation:

Automatic or Manual

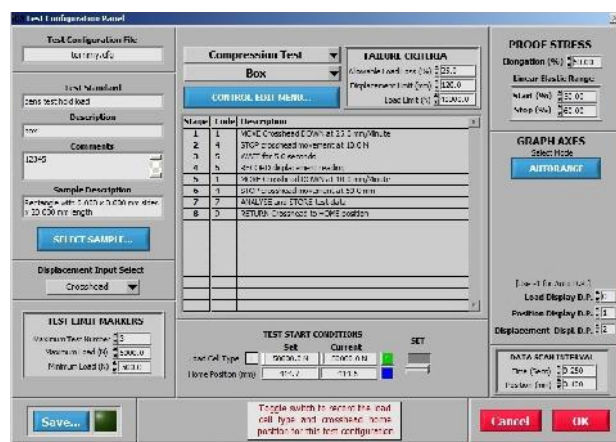
1. Move force plate to loading position
2. Load Test Sample
3. Go to preset height
4. Start test with preset parameters
5. After sample collapse, return to loading
6. All data collected and operator asked to accept or reject.
7. Print: Yes/No Store: Yes/No

Auto Set Up:

1. Auto Zero
2. Preload
3. Stop
4. Position
5. Home Position

Benefits:

- Reduce waste material
- Easy to use
- Fast results
- Accurate



Test Configuration Panel

