

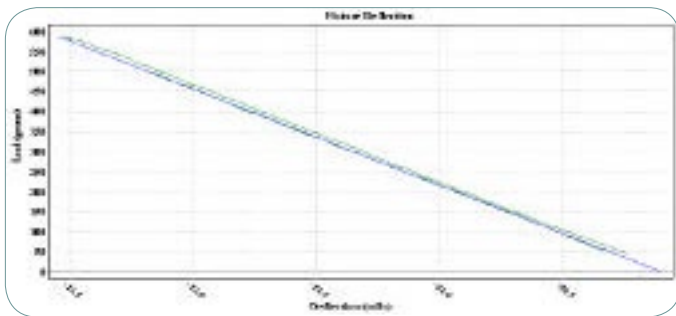


## VANTAGE COMPRESSION / SOFTNESS TESTER

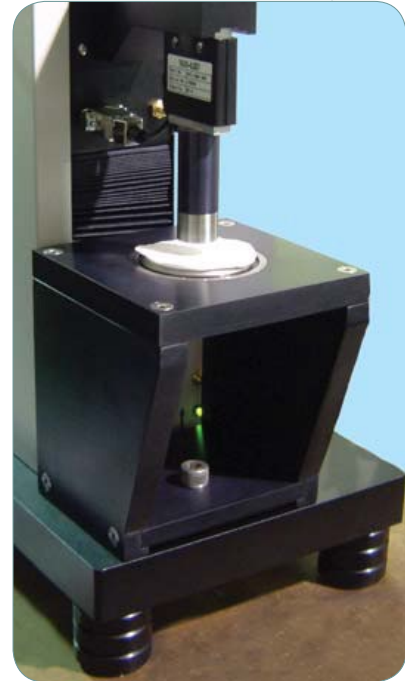
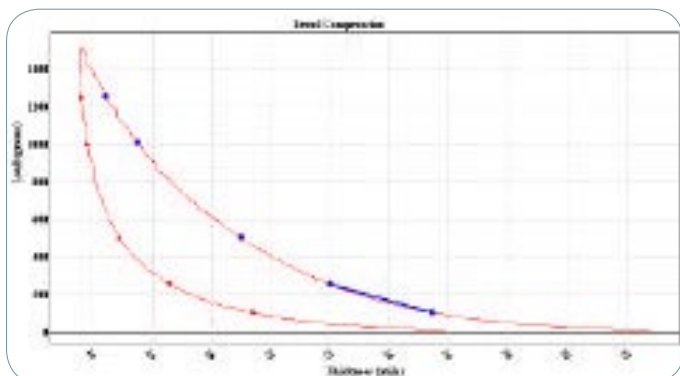
The Vantage Compression/Softness Tester is a compact, PC-controlled instrument that provides an objective measure of material softness by evaluating sample loft, thickness, compressibility and structural softness of sheet materials including paper tissue, toweling, non-wovens and textiles. Utilizing cutting-edge technology, all electronics and controls are fully integrated into the test frame enabling the connection to a standard PC with a serial port. No external control boxes or additional PC interface cards are required. Other benefits include a movable test-control keypad, one-touch auto zero and a softwarebased automatic calibration system.

### Test procedure

For the highest level of accuracy, the Vantage Compression/Softness Tester compresses test plates to a user-defined force value with no sample installed resulting in a curve (A) that represents the deflection of the machine, load cell and fixture. This curve is subtracted from the test curves which removes all instrument deflection which could affect test results.



During a test, thickness values are captured until the maximum load is reached. Thickness values are captured in both the compression (B) and recovery phase (C) resulting in two unique curves.



The distance between the two curves represents energy lost and is a function of several properties including loft, thickness, compression/recovery and structural softness.

### Compression Fixture with Pressure Foot & Anvil

Extremely robust, the adjustable anvil is mounted securely to the test frame. A pressure foot is also supplied which, in conjunction with a gage block, enables parallel adjustment of the anvil to 1 micron (0.00004inch / 0.001 mm).

### Features

- MAP-3™ Software included
- Operating System 2000/NT/XP
- One Serial Interface to a PC
- No PC Interface Cards
- Serial Load Cell interface
- Movable test control panel
- Side electronics panel for easy serviceability
- Push-button auto zero

## Specifications

### Crosshead Guidance

Precision Ball Screw

### Horizontal Clearance

Unlimited

### Depth Clearance

89 mm (3.5 in)

### Load Cells (N)

5, 10, 25, 50, 100, 250, 500 & 1000 N

### Force Accuracy

10% to 100% Load Capacity:  $\pm 0.25\%$

### Measuring Value

Less than 10% Load Capacity:  $\pm 0.025\%$  of Load Cell

### Capacity

### Force Resolution

16 Bit A/D to 0.1 N

### Position Resolution

0.6  $\mu$ m (0.00002 inch)

### System Control

PC-Based with serial interface (No PC slave cards)

### Operating System

Windows® NT/2000/XP

### Crosshead Speed

1 to 1000 mm/min (0.05 to 40 in/min)

### Speed Accuracy

$\pm 0.1\%$

### Safety Features

Emergency stop button, upper & lower limit switches with over-travel protection and load cell overload protection

### Power Requirements

110 VAC, 50/60 Hz / 220/230 VAC, 50 Hz / 240 VAC, 50 Hz

### Operating/Storage Environment

- Air Temperature:
  - Operating: 10° to 50° C (50° to 122° F)
  - Storage: -25° to 70° C (-13° to 158° F)
- Relative Humidity:
  - Operating: 10% to 85% (Non-Condensing)
  - Storage: 5% to 90% (Non-Condensing)

## Powerful software

MAP-3 materials testing software enables the user to quickly set-up and modify test parameters including dwell time, compression force, speed, trap force points and length of test. MAP-3 also provides advanced capabilities for database management and reporting and will automatically write result data to Access™ and Excel™

## Physical Specifications

### Dimensions (L x l x H)\*

254mm x 419mm x 800mm

### Weight

51 Kg

### Crosshead travel

584 mm

\*Above Dimensions do not include PC.



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