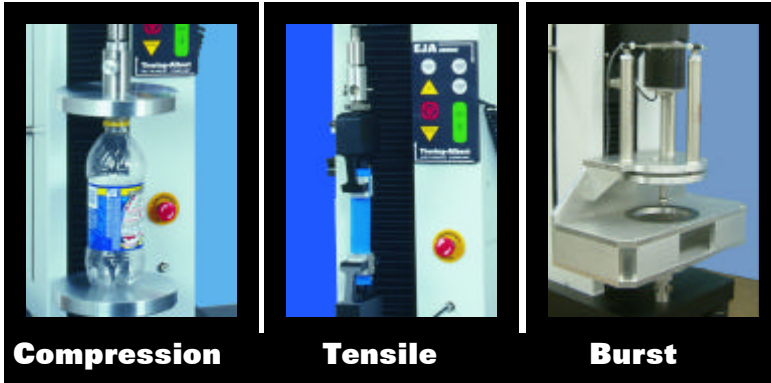


Thwing-Albert

INSTRUMENT COMPANY

Simplicity™ Materials Testing Software

Simplicity offers a basic test software option for the EJA Vantage test system. It performs tensile, compression, burst, peel, tear and coefficient of friction.



Compression

Tensile

Burst

Windows® Environment

A Windows based software package, Simplicity offers a flexible, easy-to-use interface. Convenient, familiar drop-down menus and dialog boxes step you through test set-up, parameter configuration and creation of customized reports.

Designed to fit seamlessly into your test lab, Simplicity operates on multiple platforms including 98, NT, 2000 and XP.

The EJA Vantage utilizes the latest technology to integrate all of the electronics within the test frame. This eliminates the need for PC cards and control boxes, enabling you to set-up the test station with a laptop or standard PC.

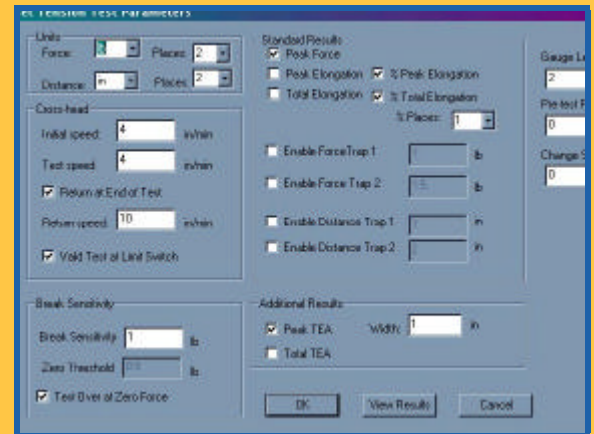
Simplicity interfaces to the EJA Vantage via a RS-232 connector. Raw data, test results and report files are easily exported and saved as text files that can be opened in other software programs.

Advanced Features

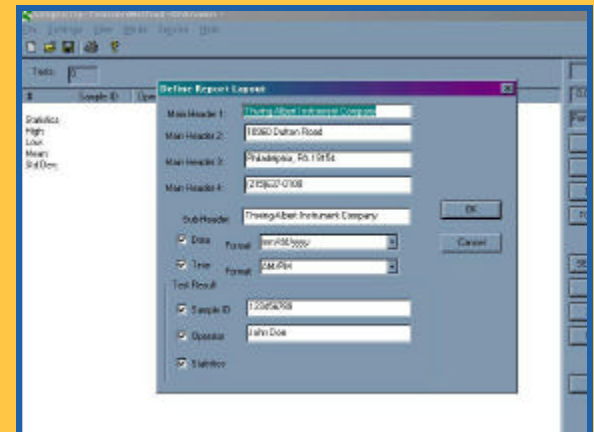
Generate reports: Define how report pages are to appear, specify whether or not to include statistics, Sample ID or Operator information. Also include customized header information.

Selectable test results: Default test results are provided for each test mode. Quickly select additional results and remove default results per test.

Password protection: Method configuration can be protected with a password, thereby limiting access to change test parameters to authorized personnel.



▲ **Configure parameters quickly with drop-down menus and dialog boxes.**



▲ **Customize report settings.**

Test Settings

Selectable settings that are the same for all of the available test modes include:

Force units: pounds (lb), ounces (oz), grams (g), kilograms (kg), newtons (N) or kilo-newtons (kN)

Distance units: inches (in), centimeters (cm), or millimeters (mm)

Crosshead speed: configure the initial speed, the test speed and the return speed

Tensile Mode

A Tension Test can be characterized as a test whereby a sample is 'stretched' until breakage occurs or until the limit switch in the direction of motion is reached.

Available results include:

- Peak Force
- Peak Elongation
- %Peak Elongation
- Total Elongation
- %Total Elongation
- Results for two force traps
- Results for two distance traps
- TEA at Peak
- Total TEA

Compression/Burst Mode

A Compression Test can be characterized as a test whereby a sample is compressed until a set distance or force value is reached, breakage occurs, or the appropriate limit switch is reached.

Available results include:

- Peak Force
- Peak Deflection
- % Peak Deflection (N/A Burst)
- Total Deflection
- %Total Deflection (N/A Burst)
- Results for two force traps
- Results for two distance traps
- Calculated Sample Height (N/A Burst)
- Peak BEA (Burst Test)
- Total BEA (Burst Test)

Peel/Tear Mode

A Peel/Tear Test pulls a sample a pre-test distance or a specified force to remove 'slack'. The test continues an additional test distance, specified force or % drop from peak during which the force values are examined. Simplicity also enables the results to reflect test data that lie between a beginning distance offset and an ending distance offset obtained during the test.. Both the beginning offset and the ending offset is configurable as percentage values of the total test distance.

Available results include:

- High Force
- Low Force
- Mean Force
- High Peel Strength
- Low Peel Strength
- Mean Peel Strength

Coefficient of Friction Mode

A COF test pulls a sample-wrapped sled across the sample for a pre-defined distance. During the test, the peak force value is captured and the force values are averaged.

Available results include:

- Static COF
- Kinetic COF



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