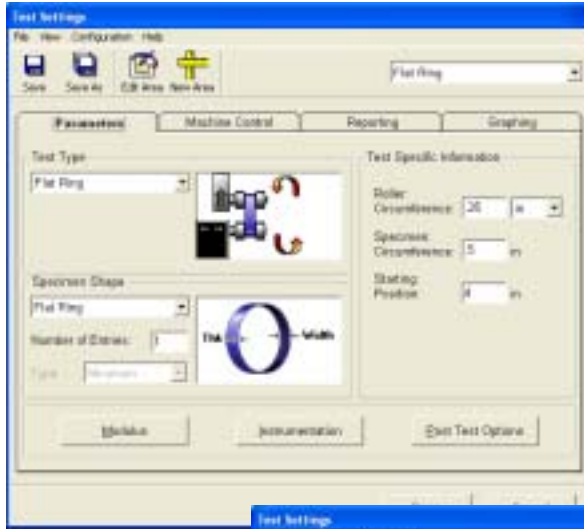




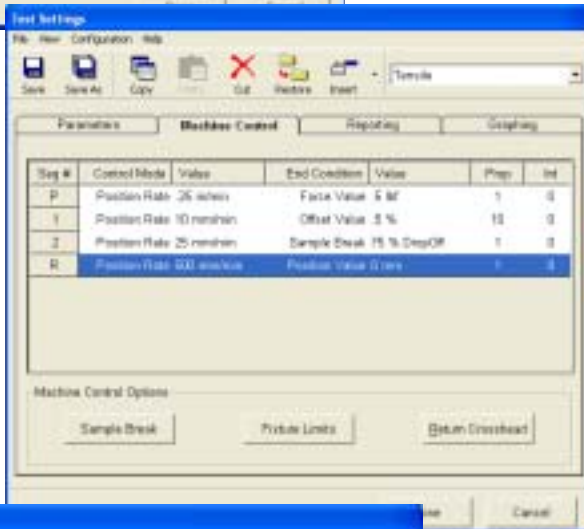
Test Navigator Testing Software



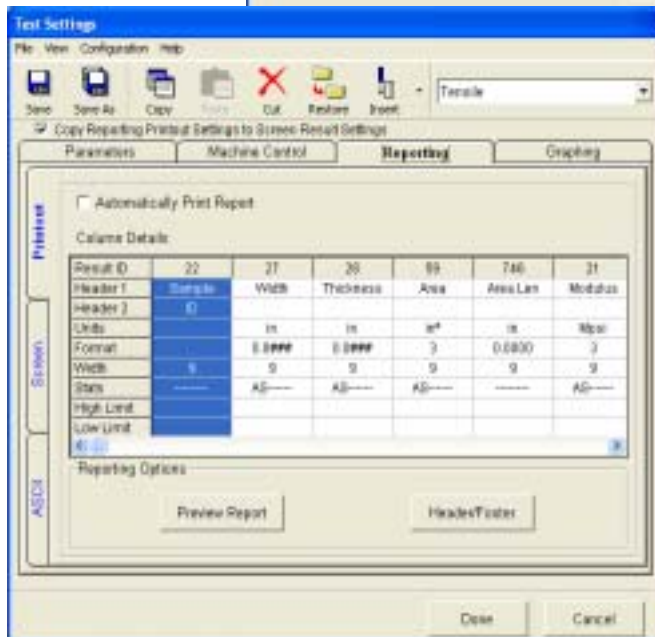
TEST NAVIGATOR STANDARD



Screen 1. This shows the test parameter set-up. This allows test specific details to be defined.



Screen 2. This shows the machine control set-up. Users can determine the number of different control rates used over the course of the test.



Screen 3. This shows the test results set-up. Users can customise the printout with desired results.

Key Features of Test Navigator Standard

- A user-friendly graphic interface.
- A Wizard for creating or modifying test settings.
- Built-in recall functionality.
- An advanced HTML help system, which includes the ability to print a manual.
- An advanced database interface: SQL Server.
- A standard device interface to accept inputs from micrometers, calipers, and scales (Gageport NT receiver is required).
- Password protection for test settings.
- Advanced modulus calculations.
- A zoom feature for zeroing in on graph sections.
- The ability to simultaneously display and print different versions of the same graph.
- The ability to simultaneously display and print different versions of the same report.
- A test result creator.
- Multi-curve functionality.
- Exporting of test results and test curve data in ASCII delimited format.
- Instrument set-up Ñ channel definition.
- Users can incorporate their company's logo on printouts.
- Free lifetime technical support.

Typical results available from common test routines:

- Tangential Modulus
- Maximum Load/Stress/Strain/Extension
- Yield Point Load/Stress/Strain/Extension
- Breaking Point Load/Stress/Strain/Extension
- Energy at Maximum/Yield/Break
- Proportional Limit Load/Stress/Strain/Extension
- Reduction in Area
- Strain Hardening Exponent (N value)
- Plastic Strain Ratio (r value)
- YPE (Ludering)
- Chord modulus
- Poisson's Ratio
- Secant Modulus
- Area (for flat, round, tubular, circular segment rebar, weight/density/length, cross-sectional-area)

Average Load/Stress

and many, many more

Test Navigator Standard

Closed Loop Control Option

Tests can be precisely controlled in tension or compression using load, strain or position as the controlled variable for rate and hold functions.

The following are some examples:

- * Load rate.
- * Stress rate.
- * Strain rate.
- * Crosshead speed.
- * Hold load, stress, strain, or position values.

Tests can be started in one control mode and changed to another mode (e.g. crosshead speed to strain rate through yield, and back to crosshead speed to failure).

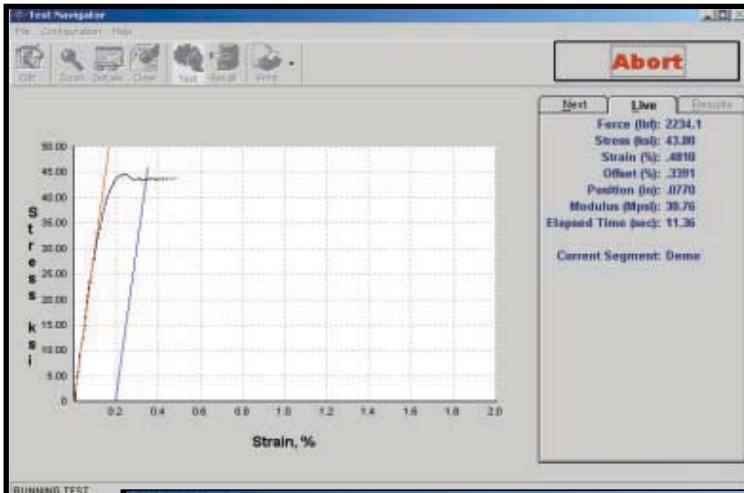
Note: Machine must have the appropriate controller and pumping system or drive.

Wide Range of Tinius Olsen Test Modules

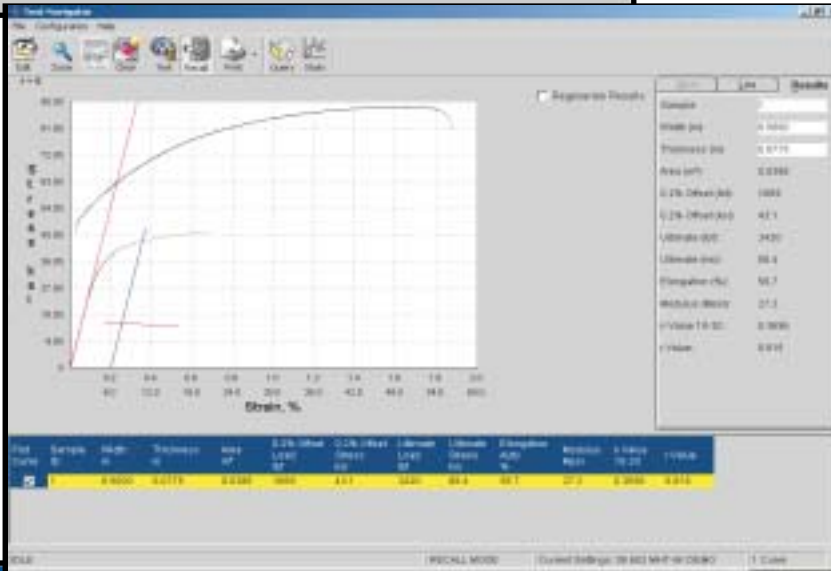
Every Test Navigator package comes standard with one test module of your choice. You can expand its capabilities by adding others as options. The following are some of the more commonly requested test modules:

- * Metals Tensile Test
- * Plastics/Elastomer Tensile Test
- * Flexure Test
- * Compression
- * Fastener
- * Textile

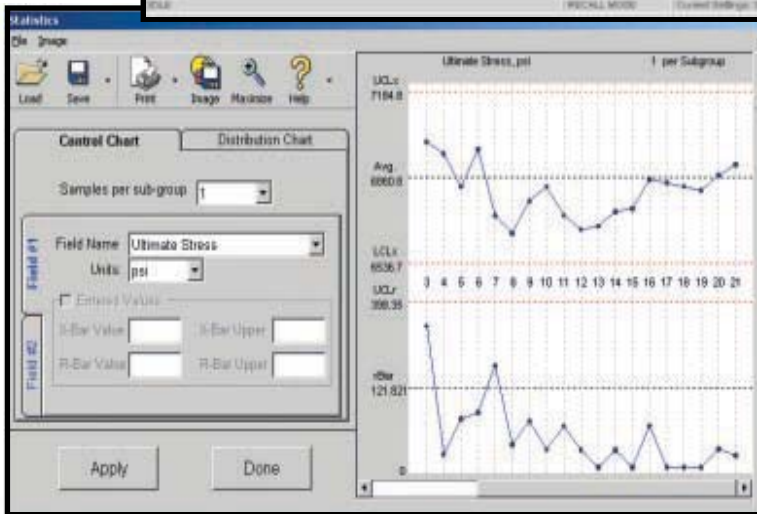
Each test module is designed to be flexible enough to meet most relevant ASTM, ISO, or other international specifications.



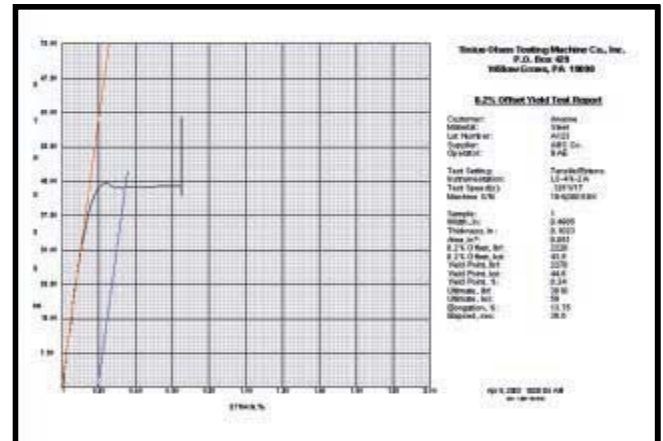
Screen 4. This shows a test in progress, with a real-time graph. Specimen dimensions for the next test can be entered at this stage.



Screen 5. This shows a typical resultant graph and results with the determination of the r value. A zooming feature is available that can aid in the analysis of results.



Screen 6. This shows typical X bar and R control charts. These are part of the SPC program that is built into Test Navigator software.



Screen 7. High resolution printouts can easily be generated.

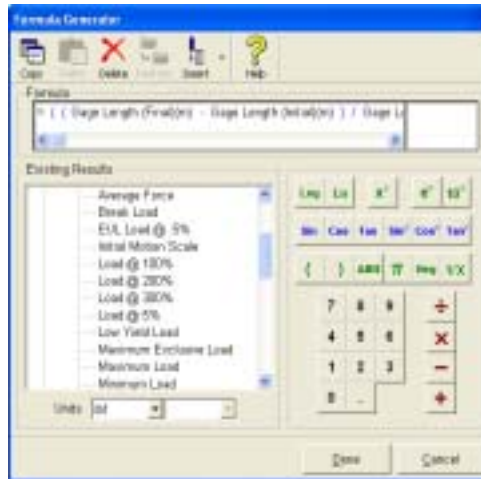
TEST NAVIGATOR PLUS

Key Features of Test Navigator Plus

- * Custom test result generation
- * Importing of test information (ASCII or XML formats).
- * Direct query editing for recalling tests.
- * Advanced device input.
- * Calculation of results from a stored curve.



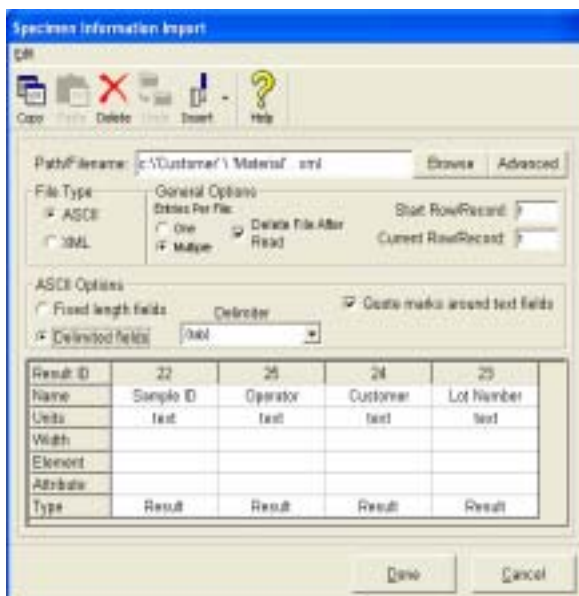
Screen 8. This screen shows the channel set-up for a separate instrument.



Screen 9. This screen shows the formula generator details that allow the creation of non-standard formulae as part of the test report.



Screen 10. This screen shows the flexibility of the import capabilities of Test Navigator Plus. Here is where the import data is obtained, based on user-defined criteria.



Screen 11. This shows the import capabilities of specimen details in Test Navigator Plus.

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