

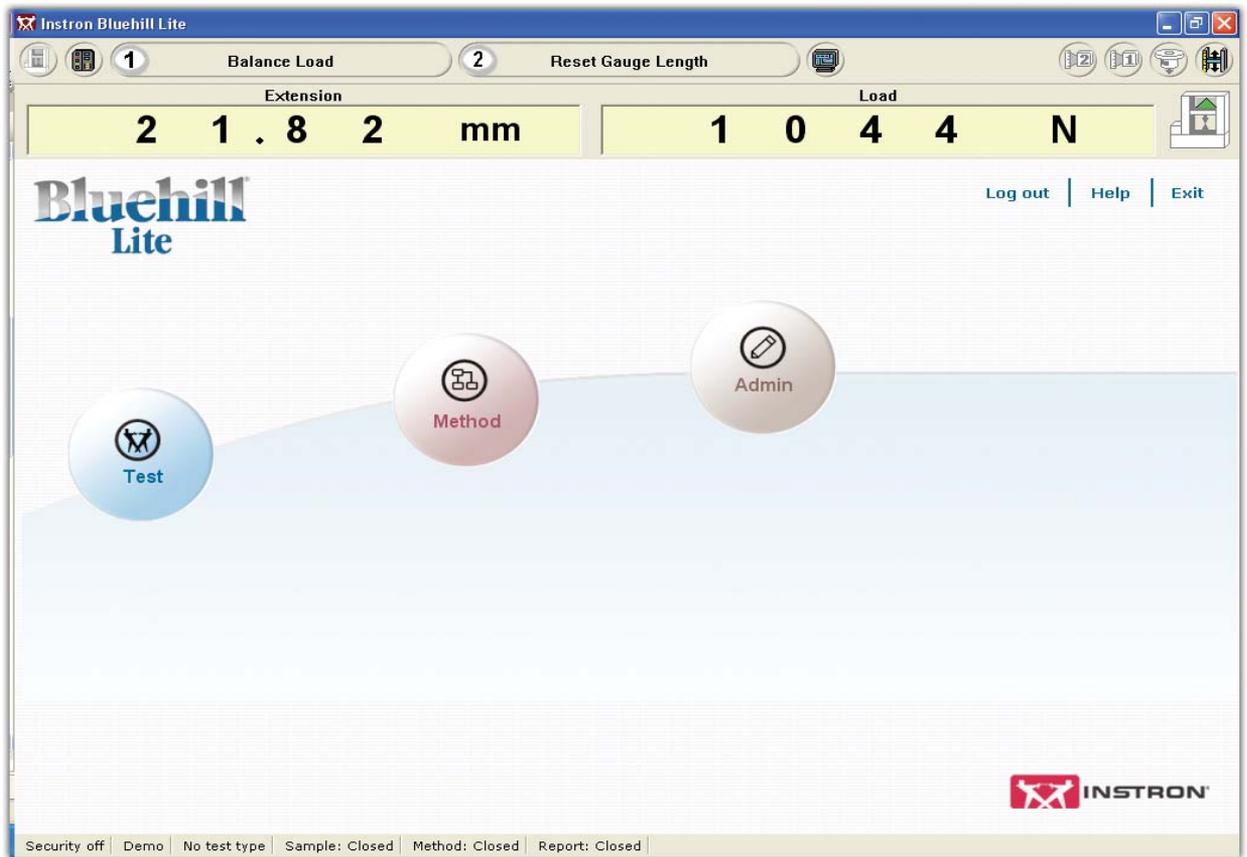
Bluehill® Lite Software

Flexibility and Performance for Everyday Material Testing Applications



*The difference
is measurable.*

Flexibility and Performance



▲ Bluehill® Lite home screen

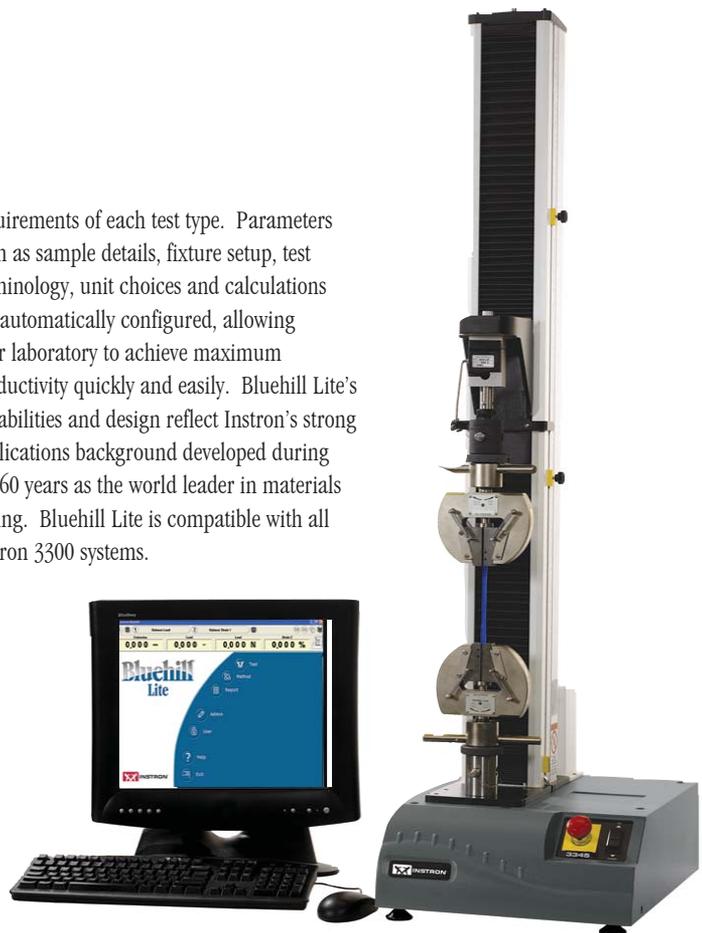
Exceptional Functionality and Intuitive Operation

Instron®'s Bluehill Lite software provides all the capabilities you need to handle standardized tensile, compression, flexure, peel, tear, friction and simple cyclic test requirements quickly and efficiently. The intuitive web-like design makes it easier than ever to run tests, analyze results and share test data.

Users at all levels will appreciate the minimum learning and training required. This "lighter" version of Instron's acclaimed industry standard Bluehill software is well suited for fundamental applications and standardized test requirements.

Bluehill Lite software is divided into color-coded tabs and a distinct home screen that makes navigation effortless and increases the efficiency of test setup. Screens are tailored to the unique application

requirements of each test type. Parameters such as sample details, fixture setup, test terminology, unit choices and calculations are automatically configured, allowing your laboratory to achieve maximum productivity quickly and easily. Bluehill Lite's capabilities and design reflect Instron's strong applications background developed during the 60 years as the world leader in materials testing. Bluehill Lite is compatible with all Instron 3300 systems.



▲ Bluehill running a test with a 3300 system

Test with Ease

An advanced testing system does not have to be hard to use. Tests can be started with just two steps. Test control, data acquisition, plotting, calculations and reporting are performed automatically.

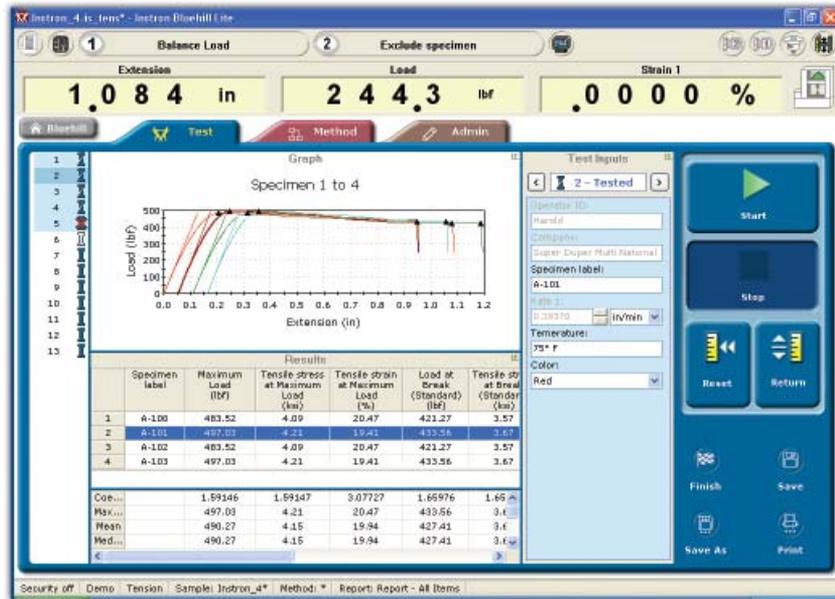
A friendly home screen welcomes the user with a simple menu. Select from the test method list and start testing. All functions are performed automatically and any test results outside an expected range are immediately flagged. Safety is paramount and the system automatically stops if specific parameter limits are exceeded.

Bluehill® Lite's simple-to-use, tabbed user interface consolidates testing, test method definition and system administration, making the entire testing process very easy to manage. Click a tab to see your choices and select what you want to do. It's that simple.

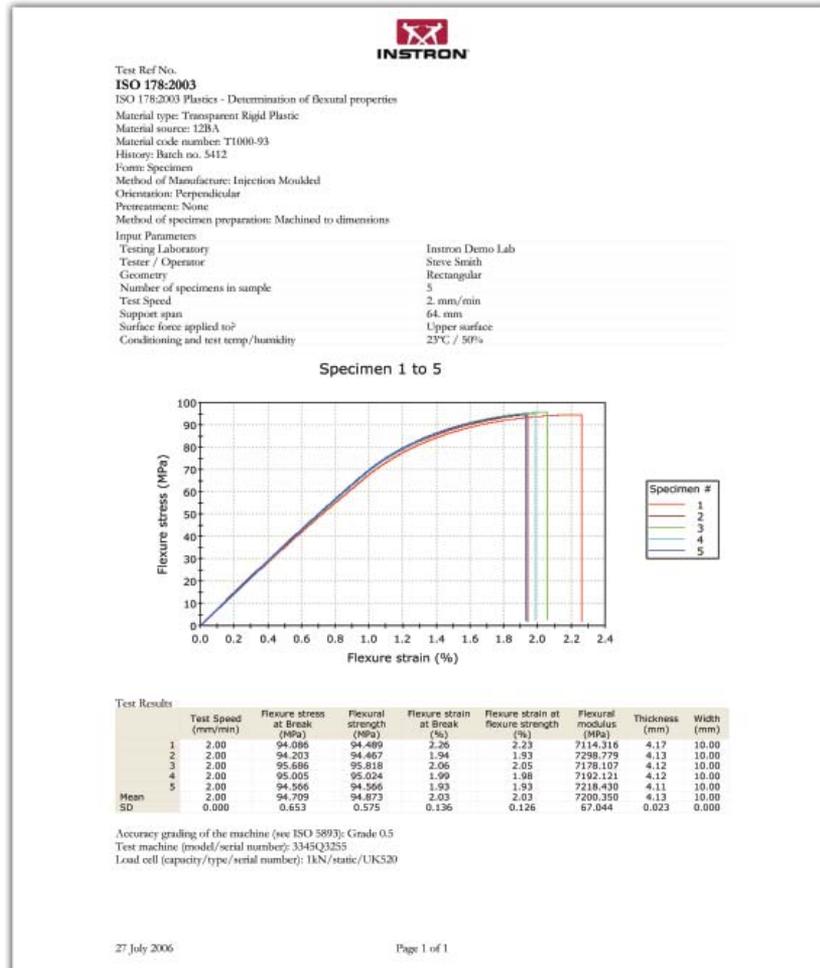
Choose both the manner in which you want the test to run and the content you want to see. You control everything from the graph style, column format in the results table to the test screen layout.

Report Output

To accommodate a wide range of reporting needs, Bluehill Lite incorporates several predefined report templates for output to a printer – or save directly as a PDF file format for easy sharing. Additionally, results can be saved to ASCII files for easy import into your statistical software package, database or LIMS.

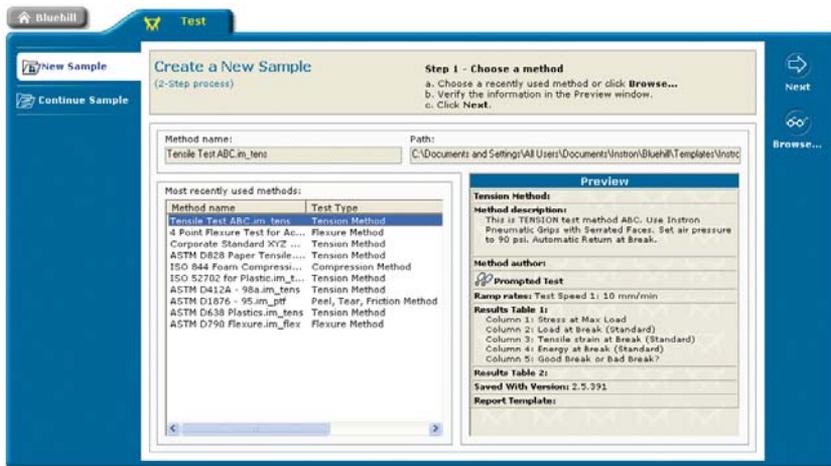


▲ Typical Bluehill Lite test screen



▲ Example test report

Flexibility



▲ Test method opening with preview

Bluehill Lite Test Method Templates

ASTM Library

Example tension, compression, flexure, peel, tear, friction methods designed in accordance with the most popular and widely used ASTM test standards including:

- ASTM D 638, D 695, D 732, D 790, D 882, D 1004, D 1612, D 1708, D 1894, D 3163, D 6272 for plastic
- ASTM D 412, D 413, D 429, D 575, D 624 for rubber
- ASTM D 2261, D 5034, D 5035, D 5587, D 5733 for textiles
- ASTM D 1876 for peel
- ASTM D 790 for flexure
- ASTM D 828 for paper

ISO/EN Library

Example tension, compression, flexure, peel, tear, friction methods designed in accordance with the most popular and widely used ISO/EN test standards including:

- ISO 527-2, -3, 178, 604, 8295, 6383-1 for plastic
- ISO 844, 8067, 1798, 1922 for foam
- ISO 34-1, 37, 813, 4074, 455-2 for rubber
- ISO 1421, 2062, 2411, 9073-3, -4, 13934-1, -2, 13935-1, 13936-2, 13937-2, -3, -4, for textile

Note:

1. Methods can be easily modified and readily run to meet the user's specific test needs.
2. Other test methods are available from our extensive library for different material types.



▲ Rubber test using long travel extensometer



▲ Plastic test using Standard Video Extensometer (SVE)

Application Focused

Bluehill® Lite is designed as a focused application solution to let you run tests quickly and easily. Bluehill Lite automates data acquisition, machine control, analysis, and reporting for a wide range of test requirements including tension, compression, flexure, friction, peel/tear and simple cyclic. Automate your tests per leading test specifications including ASTM, ISO, BS, EN, DIN and JIS. Typical applications include evaluating the strength, modulus, elongation, yield and other properties of polymers, textiles, paper, wood, adhesives, ceramics, etc. You get a versatile software package for practically any standard testing scenario.

Standardized Test Methods

Bluehill Lite includes a large library of general test methods tailored to the most common test standards. You can preview the test method before opening it to ensure that you have selected the correct one. You also have the flexibility to create new test methods and define your own preferred settings for test setup, test results and graphs.

Test Method Templates

Instron has an extensive library of test method templates designed in accordance with specific industry test standards. Test method templates are pre-formatted with all the relevant test method criteria; such as test parameters, procedure and required calculations. Test methods are continuously reviewed by Instron application engineers and test professionals to meet the latest requirements. Contact Instron for availability.

A Common Language

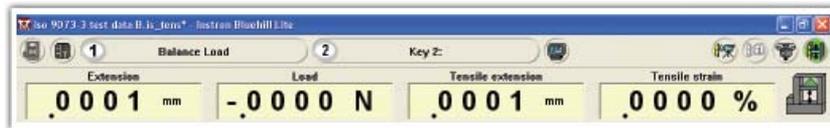
In the testing world, Instron Bluehill is an industry standard. With thousands of systems in use worldwide and available in fifteen languages, test methods, calculations, and data formats are universally recognized and accepted. Whether you are matching data with a local supplier or comparing test methods with a multinational customer, Bluehill Lite lets you speak a common language.

Bluehill® Lite's screen display is designed as an intuitive interface for the operator. The screen is divided into two main working areas:

- Status console used for system setup and test monitoring
- Workspace used to setup and run the test procedure

Status Console – Designed for Simplicity and Safety

Located conveniently above the operator's workspace is the intuitive Bluehill Lite status console. The console's live display of the system's load, extension, strain, time, etc. provides immediate feedback on the current test status. The console is user configurable and allows for a wide variety of tasks including calibration and balance, setting limits, setting periodic reminders for calibration and even flagging load drifts more than a specified amount.



▲ Status console

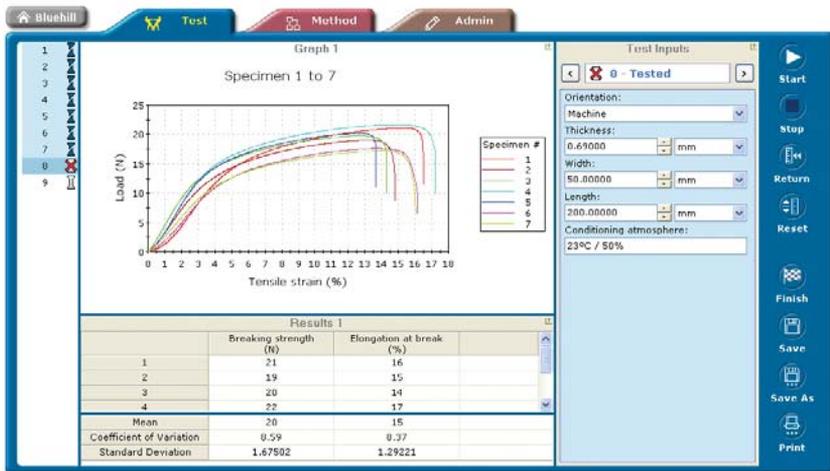


▲ Add video, images and audio instruction to test flow

Test Workspace – Maximum Flexibility

Bluehill Lite allows the user to create a test flow that is best suited for individual testing needs. Everything from input parameters, test control, results table style, column fonts and graph background color options are controlled and designed by you. The user can configure:

- Input parameters
- Test control
- Results and statistics
- Report output



▲ Test screen with user designed layout



▲ Peel test using screw action grips



▲ Textile test using cord and yarn pneumatic grips

Performance

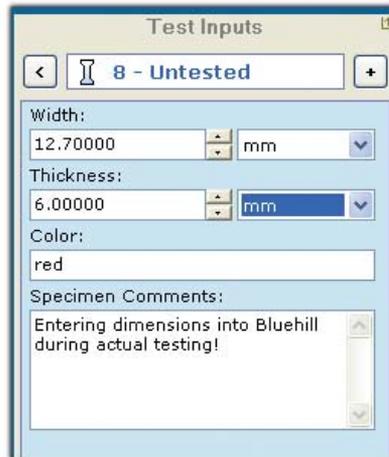
Specimen Selector

The Specimen Selector is a unique feature

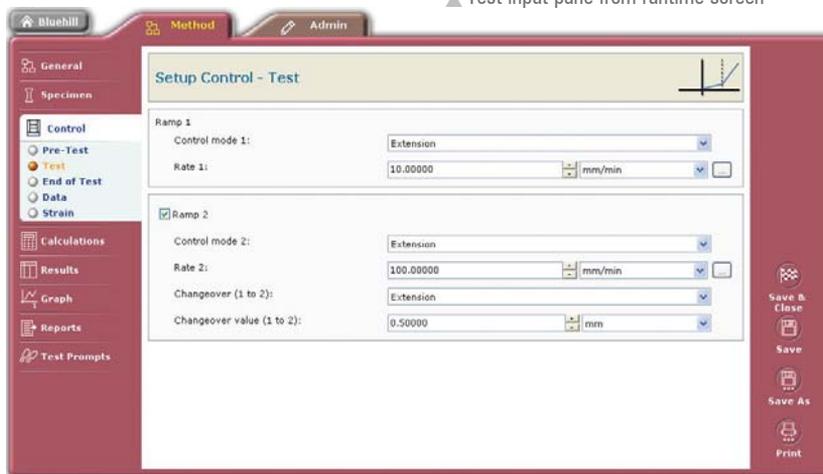
to view and manage your tests quickly and easily. Click on any specimen to simultaneously view the graph, results, test inputs and status with options to exclude or delete.



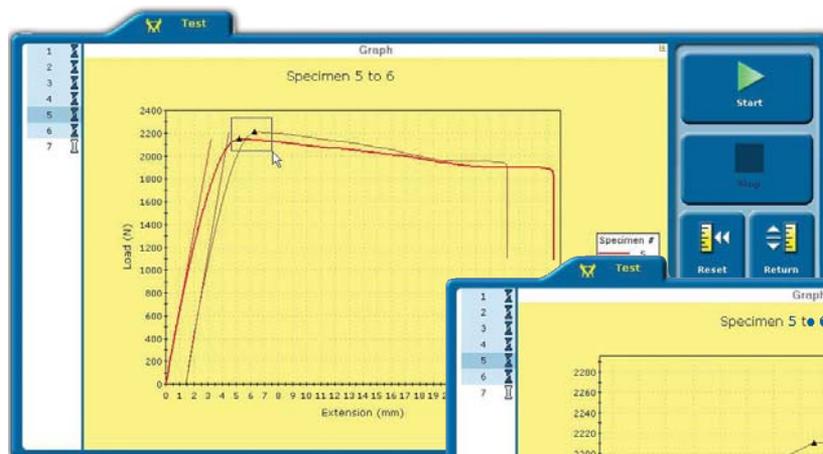
▲ Specimen selector



▲ Test input pane from runtime screen



▲ Test speed control



▲ 'Zooming' on the peaks of test 1 and 2



▲ Peaks of test 1 and 2

Test Inputs

The test input area allows you the flexibility to enter crucial specimen information before, during or after testing. You can even input dimensions for your specimen before or during testing to save valuable time and minimize input errors.

Test Control

Bluehill Lite's machine test control allows you to set up test parameters per your test specifications. Set a preload segment for your test and up to two test ramp segments with a user-defined switchover point. All test types have three independent end of test criteria. After the test, the crosshead can stop or return automatically.

Test Screen Displays

Graphing and viewing tests are powerful, yet easy to use. A single runtime screen throughout the testing process eliminates the need to toggle back and forth between displays. Its design allows the graph to be set to automatically rescale during testing and the user can overlay up to 25 color-differentiated curves simultaneously. Additionally, you can "zoom" into detailed regions of the graph data with a single mouse click.

Advanced Calculations

Bluehill® Lite includes an extensive built-in library with standard calculations conforming to ASTM, ISO, BS, EN, DIN, JIS, etc. Additionally, you can set up user-defined points and rename calculations and units to meet your laboratory's standards. The library includes maximum load, break load, yield, modulus, preset points, average load and many other materials testing functions.

Calculation Editor

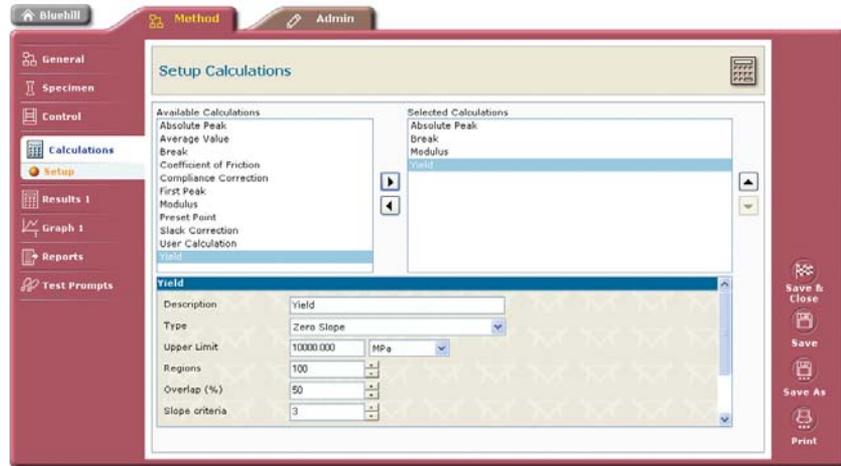
Although Bluehill Lite's standard application calculations cover almost every need, occasionally unique requirements arise. Bluehill Lite lets you create custom user calculations to meet these needs. These user calculations offer a range of easy-to-use mathematical, trigonometric and logarithmic functions. Simply click on the calculator to create your own calculations.

Prompted Testing for Speed and Efficiency

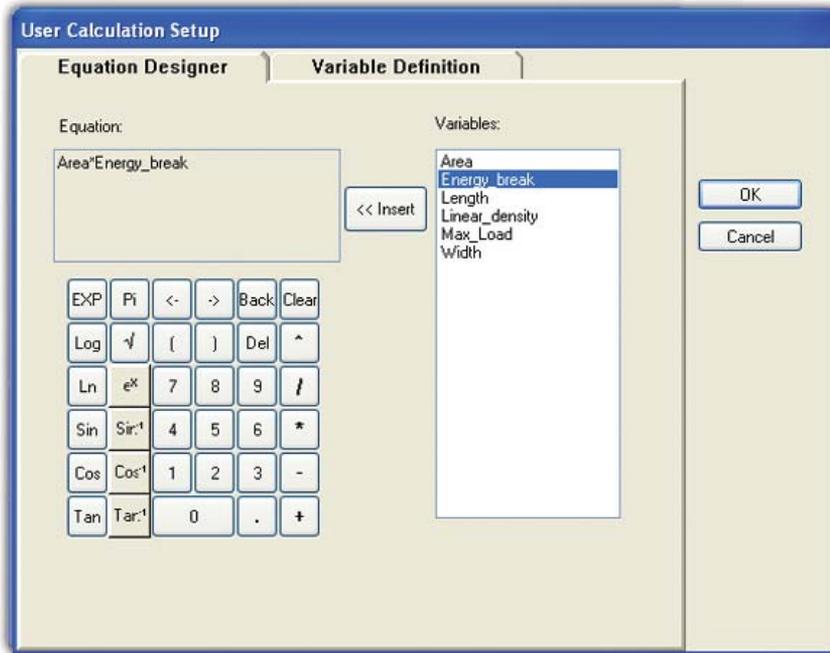
Bluehill Lite's "Prompted Test" feature lets you pre-define test dialog screens to appear with instructions and prompts to step you through from test start to final report. With "Prompted Test", every aspect of your interaction with the software can be defined. Prompts for user input can be inserted at any point during the test sequence. You can also opt to show the runtime workspace after the test or after calculations are performed.

Copy and Paste Capability

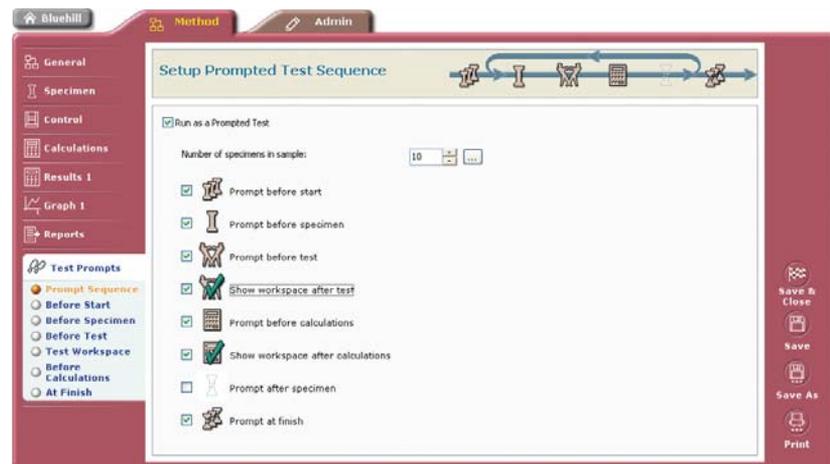
Use the standard "copy and paste" technique to copy result tables and graphs from Bluehill Lite into your favorite software package; including Microsoft® Excel, Word or PowerPoint.



▲ Calculation screen



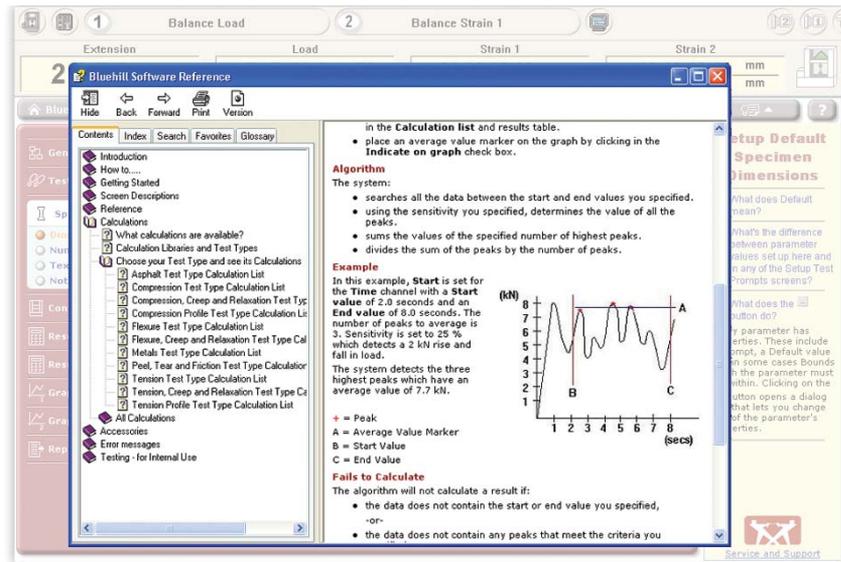
▲ User-defined calculation setup



▲ Setting up the 'Prompted Test'

Help

Although you will find that Bluehill™ Lite is intuitive to use and easy to operate, questions always arise. Bluehill Lite provides user assistance at a variety of levels. “Tool tips” appear when the cursor hovers over an icon. Throughout Bluehill Lite, you can take advantage of context menus (commonly referred to as “right click” menus) to streamline your operation. For the most comprehensive help, the online help and reference manuals provide context sensitive and illustrated assistance with indexes and hyperlinks to related topics.



▲ Reference help for peel testing

For information on Instron® products and services call your local worldwide sales, service and technical support offices:

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