

# BLUEHILL® FRACTURE

Simplify your Fracture Testing, Analysis and Reporting

Bluehill Fracture is a dedicated fracture mechanics software from Instron. Machine control, data analysis and reporting are performed for metals fracture toughness measurement to key international standards.

## MODERN UI AND CUSTOMIZABLE TESTS

- Modern User Interface
- Logical, guided work-flow
- Post-test data input, result calculations and report generation
- User-defined test method templates allow for a customized and more streamlined test routine



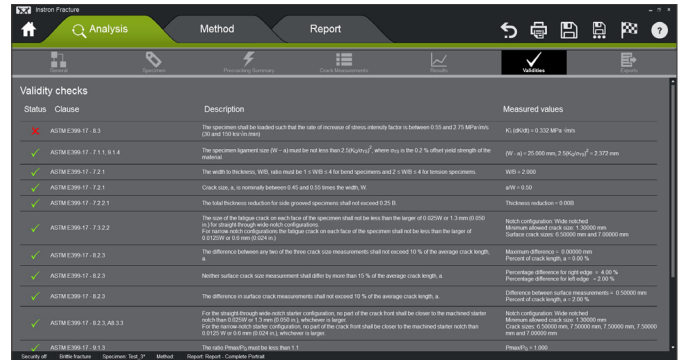
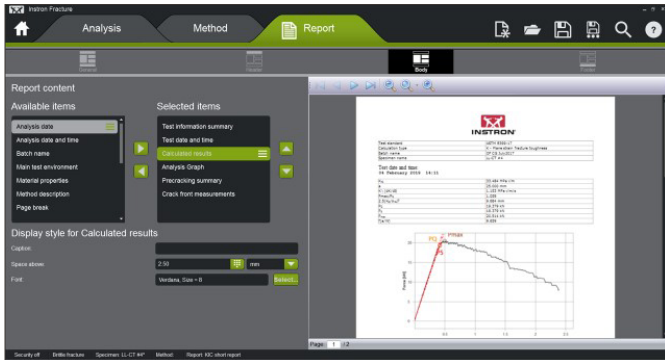
Pre-cracking control is included within the software, allowing data to be automatically collected and included in the validity analysis of the fracture test. Alternatively, pre-cracking data can be entered manually, or generated on another machine running Bluehill Fracture and the test file re-opened providing simple continuity.

## RE-ANALYSIS AND REPORTING

Completed test files can be reloaded on any computer, to quickly and easily repeat the analysis in accordance with other standards, in different units, or produce an alternative report. Results are immediately recalculated if changes are made to measurements or calculation methods. Multiple user-defined templates can be created for reports, generated either automatically at the end of the test, or on demand.

## DETAILED VALIDITY ANALYSIS

Detailed evaluations of test validity criteria are also available, for review on screen or inclusion in reports, according to the selected standard. Future updates to support revised testing standards are distributed through standalone DVDs and can be easily applied to an existing installation, without the need to upgrade the whole system.



## ACCESS CONTROL

Bluehill Fracture also includes 3 user access levels allowing you to limit features and functionality according to different user types, for example operators can access preset test methods prepared by the laboratory manager without editing capability.

## INTEGRATION

Various functions are available to support integration with laboratory data management systems (e.g. LIMS), such as the option to import automatically generated inputs of specimen geometry and material properties.

### SUPPORTED FEATURES

- **Specimen types:** Compact Tension (CT), Single Edge Notch Bend (SENB), Disc Shape CT, Arc-Shape Tension, Mid-notch Tension (MT/CCT)
- **K<sub>Ic</sub> standards:** ASTM E399, ASTM B645, ISO 12135, BS7448-1
- **J<sub>Ic</sub> (or δ<sub>Ic</sub>) standards:** ASTM E1820 methods for Unloading Compliance and DCPD
- **Pre-cracking:** crack length determination from C.O.D. gauge
- **Crack Propagation:** Fatigue crack growth rate determination (da/dN)

### COMPATIBILITY

Instron 8800 or 8800 MiniTower controller and PC running Console V8.12 onwards (further details at <http://go.instron.com/dynamicsystems-pcspec>)

### CATALOGUE NUMBERS

- **New systems:** 2495-930
- **Standards library update:** 2495-932
- **Upgrades from Existing Instron Fracture Mechanics Package:** 2495-935



More information can be found on our website at <https://go.instron.com/bluehillfracture>

[www.instron.com](http://www.instron.com)



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