

The Instron® 3300 Series addresses the needs of standardized and routine testing, providing the user Instron quality at the most affordable price. The 3382 floor model testing system is suited for tension, compression, peel, flex, and other applications with load requirements that require testing up to 100 kN (22,400 lbf). It is typically used for heavy-duty quality control and production testing.

## Instron Quality at an Affordable Price

Our attention to every element of the system is what separates Instron from other testing equipment suppliers and allows us to confidently report the accuracy, repeatability, and reproducibility of our results.

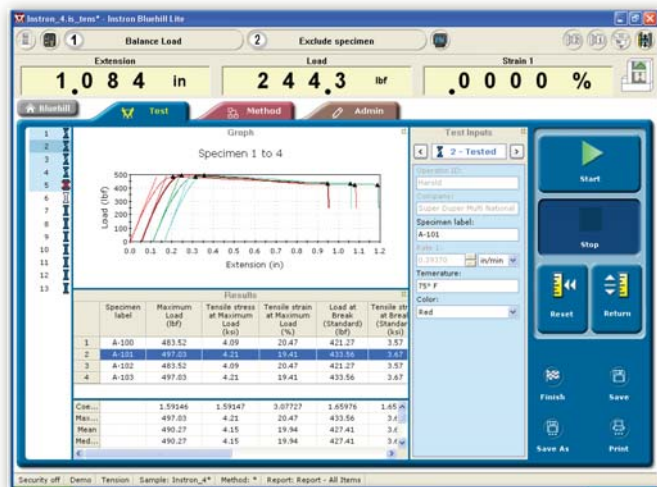
- Automatic recognition and calibration of load and strain transducers and verification performed by factory-trained field service engineers
- Preloaded ballscrews, precision guidance columns, and a symmetrical drive system improves frame stiffness and alignment
- Extensive range of accessories to meet test requirements in almost any application or industry: plastics, metals, biomedical, composites, elastomers, components, automotive, aerospace, textiles, and more
- Self-diagnostics expedite troubleshooting and minimize downtime
- All testing systems include choice of load cell
- Full one-year warranty on parts and labor

## Start Testing in Two Steps: Open a Method, Press Start

With multiple operators, varying skill levels, and continuous training needs, you need a user interface that is simple to learn. Instron Bluehill® Lite Software is designed to meet the demands of everyday applications and testing standards used in a wide variety of industries. Bluehill Lite provides all the capabilities you need to handle basic tensile, compression, flexure, peel, tear, friction, and simple cyclic test requirements quickly and efficiently. Tests are started with just two steps and test control, data acquisition, plotting, calculations, and reporting are performed automatically. To further assist the operator, the Prompted Method guides operators through repetitive test procedures with step-by-step instructions.



\*System Shown with Optional Safety Shield



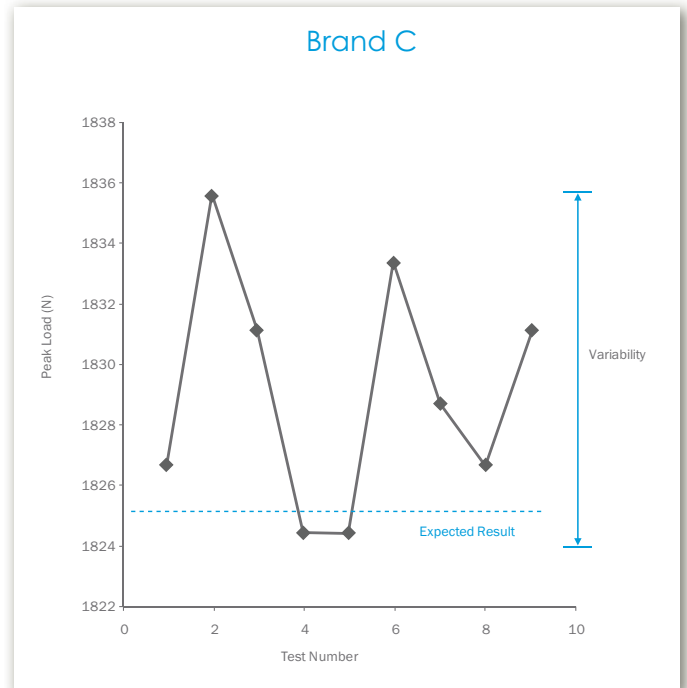
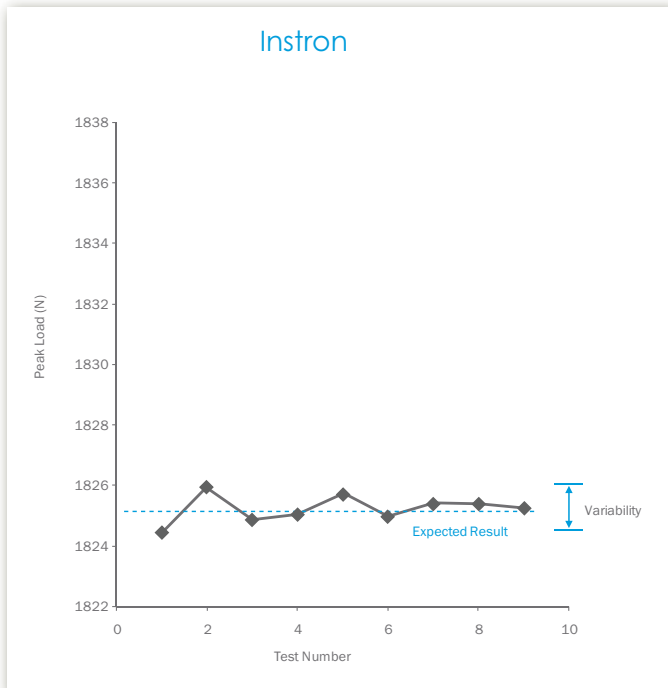
Typical Bluehill® Lite Test Screen

## Confidence in Your Results

Head-to-head comparison reveals the Instron® difference. Notice the difference in variability of measured peak load between the two machines - this is the kind of measurable difference that sets Instron apart.

### Case Study

- Same operator
- Same specimen: Coil spring
- Same test conditions: Compression test
- Different machines: Instron vs. Brand C



\*Reference paper available upon request or you can visit the literature section of [www.instron.com](http://www.instron.com)

## Why Does Better Repeatability and Reproducibility Matter to You?

- More parts pass your acceptance criteria, less parts rejected
- Less time spent in troubleshooting data problems
- Long-term cost savings
- Strengthening of your testing lab's reputation
- Increased ability to meet delivery expectations

## Specifications

3382

Load Capacity	kN kgf lbf	100 10,000 22,500
Maximum Speed	mm/min in/min	500 20
Minimum Speed	mm/min in/min	0.005 0.0002
Maximum Force at Full Speed	kN lb	50 11,250
Maximum Speed at Full Load	mm/min in/min	250 10
Return Speed	mm/min in/min	600 24
Total Crosshead Travel	mm in	1,235 48.5
Total Vertical Test Space	mm in	1,323 51.3
Space Between Columns	mm in	575 22.6
Height	mm in	2,393 94.2
Width	mm in	1,124 44.3
Depth	mm in	779 30.7
Weight with Typical Load Cell	kg lb	766 1,690
Maximum Power Requirement	VA	1,500
Single Phase Voltage	VAC	100 120 220 230 240

### Notes:

1. All systems conform to all relevant European standards and carry a CE mark.
2. Total vertical test space on all systems is the distance from the top surface of the base platen to the bottom surface of the moving crosshead, excluding load cell, grips, and fixtures.

The above specifications were developed in accordance with Instron's standard procedures and are subject to change without notice.

### Common Specifications

#### Load Measurement Accuracy

±0.5% of reading down to 1/100 of load cell capacity. Meets or exceeds ASTM E4, BS 1610, DIN 51221, ISO 7500/1, EN 10002-2, JIS B7721, JIS B7733, and AFNOR A03-501 standards.

#### Strain Accuracy:

Meets or surpasses the following standards: ASTM E83, ISO 9513, and EN 10002-4

#### Crosshead Speed Accuracy (Zero or constant load):

±0.2% of set speed

#### Power Supply

47 to 63 Hz. Must be free of spikes, surges, or sags exceeding 10% of the nominal voltage.

#### Operating Temperature:

+10 to +38°C (+50 to +100°F)

#### Storage Temperature:

-40 to +66°C (-40 to +150°F)

#### Humidity Range:

+10 to +90%, non-condensing

#### Atmosphere:

Designed for use under normal laboratory conditions. Protective measures may be required if excessive dust, corrosive fumes, electromagnetic fields, or hazardous conditions are encountered.

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