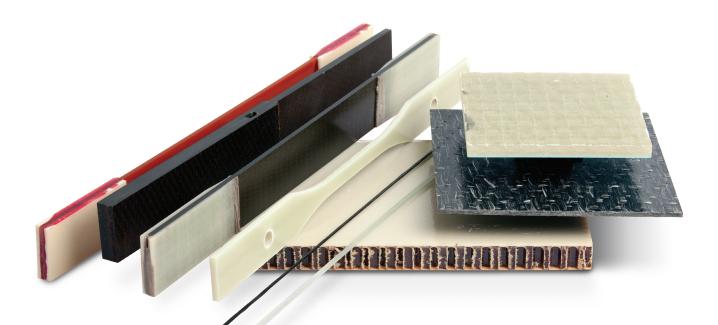


EVERYTHING YOU NEED FOR TESTING COMPOSITES What Are You Testing?





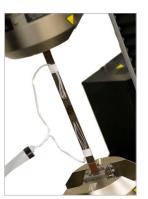
Fibers

Choose from a range of manual and automatic grips, lowforce load cells, and extensometers.



Tows

For research or quality control, manual and automated solutions for testing tows.



Laminates

Grips and systems for testing laminates and sandwich materials; thick and thin, wide and narrow.



Elements

Solutions for testing various elements including lap shear, and bonded joints



Structures

Solutions for testing composite structures, large and small: static and fatigue systems with force capacities of up to 5 MN.

What Accessories Complete My Test Setup?

Instron[®] - A Total Solution Provider



Static

A comprehensive range of electromechanical testing systems for testing composites in tension and compression.

Low/High-Temperature

Chambers, grips, and fixturing to optimize systems for tension, compression, shear, and other testing at non-ambient conditions.



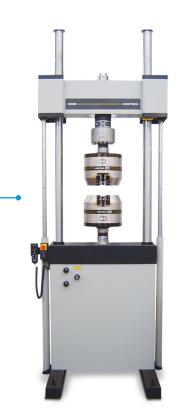


Fatigue and Fracture

Servohydraulic and electrodynamic systems with force ranges from 1 - 5,000 kN for static and dynamic testing.

Damage Resistance

A drop tower impact tester screens composite materials for damage resistance or inflicts damage for deeper analysis and testing (CAI).



Do You Need to Meaure Strain?

Instron[®] - A Total Solution Provider

Contacting Extensometers

A wide range of manual, clip-on, contacting extensioneters are available; from simple axial types, to dual averaging axial and biaxial types capable of determining Poissons ratio. Instron's AutoX750 automatic extensioneter provides a fully automated strain measurement.







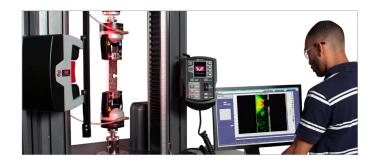


Non-Contacting Extensometers

A video extensometer is a non-contacting extensometer that can measure deformation by tracking the movement of two attached markers on the specimen, using high-resolution digital camera technology. The latest generation of non-contacting extensometer combines high accuracy with a very high sampling rate and the ability to measure strain during a dynamic test.

Digital Image Correlation (DIC)

DIC is an optical technique that compares images of a tested specimen's surface to generate full-field strain and displacement maps.







Strain Gauges

Acquiring strain data from strain gauges is simplified by the use of strain gauge adapters. In addition extra channels of data acquisition can be added to support multiple strain gauges.

What Accessories Complete My Test Setup?

Instron[®] - A Total Solution Provider



Grips, Fixtures, and Adapters

Choose from a wide range of ASTM/ISO/DIN/EN fixtures. Select the right grips for accurate and repeatable gripping of alignment-sensitive tensile testing applications. Utilize piggyback adapters for quick attachment of test fixtures without removing the primary grips or load cell.



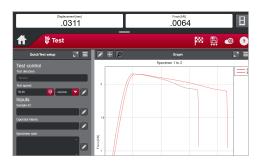


Alignment

Comprehensive range of accessories and services to meet Nadcap requirements.

Chambers

Temperature chambers for testing between -70 and +250 $^{\circ}$ C (-94 and +392 $^{\circ}$ F).



Control	Events/Actions		Data	
	Cycle 1	_		
	Displacement	_		
	25.00		fx 😳 mminin	
	4.0			1
Initial direction:	Maximum	_		
Maximum measurement:	Displacement	_		
Maximum value:	50.00		ƒx ₩ mm	
Minimum measurement:	Displacement			
Minimum value:	5.00		fx 🔢 mm	

Software

Materials testing software designed for testing composites on our static, dynamic, impact, and rheology testers: Bluehill[®], TrendTracker, WaveMatrix[™], VisualIMPACT, and VisualRHEO.





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