



Cascade Engineering Services, Inc.

Equipment for Tension, Compression, 3&4 Point Bend and Variable Angle Peel Testing

Instron Mechanical Test System

Instron Universal Mechanical Test Machine

Instron Mechanical Test System



Application

Instron: Helpful in Material characterization (Stress/strain curves, Tensile/Flexure strengths, strain measurements etc..) & Product design limit evaluation.

Walk-in Chamber #1 Spec.

| | |
|----------------------|--|
| Model: | 5569 |
| Manufacturer: | Instron |
| Load Capacity: | Upto 50kN |
| Speed: | 0.001-500mm/min |
| Data Capture Rate: | 500Hz |
| Test Capabilities: | Tensile Compression Peel 3-pt & 4-pt Bend |
| Temperature Control: | -70 °C to 350°C |
| Accessories: | Extensometer/Deflectometer |

Instron Universal Mechanical Test Machine

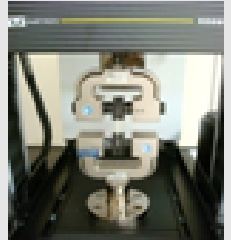


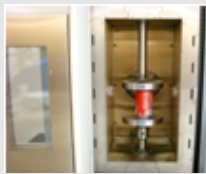
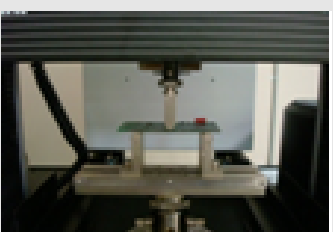

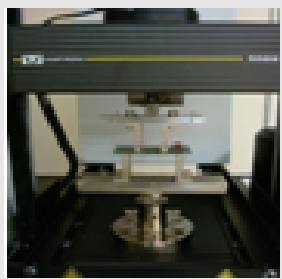

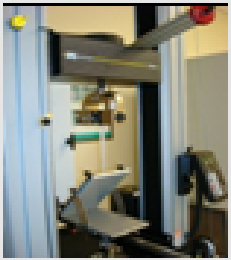


50KN Frame Capability with Chamber

Applications

Adhesives, Consumer Electronics, Automotive, Composites, Medical devices, Plastic and Rubber Products

- Stress-Strain including yield, strength determination
- Evaluating effect of temperature on material properties

| Test Type | Fixture / Accessories | With Chamber | Capabilities |
|-----------------------------|--|---|--|
| Tensile |  |  | Maximum specimen thickness between jaw faces: 20mm (1.18in) Maximum Load: 10KN Maximum Torque: 80Nm Temperature Rating: -70°C to 125°C Weight: Upper Grip: 4.25Kg (9.37LB) Lower Grip: 4.65Kg(10.25LB) |
| Compression |  |  | Maximum Load: 10KN Diameter: 150mm (6in) Weight: 3.4Kg (7.5LB) Temperature Rating: -70°C to 125°C |
| Flexure-3 point bend |  |  | Load Capacity: 5KN (1000LB) Temperature Rating: -100°C to 350°C Maximum span (lower anvil): 194mm (7.64in) Maximum travel distance (upper anvil): 50mm (2.36in) Weight: Upper anvil assembly: 2.97N (0.67LB) Lower anvil assembly: 32.5N (7.24LB) |
| Flexure-4 point bend |  |  | Load Capacity: 5KN (1000LB) Temperature Rating: -100°C to 350°C Maximum span (lower anvil): 194mm (7.64in) Maximum span (upper anvil): 97mm (3.82in) Maximum travel distance (upper anvil): 50mm (2.36in) Weight: Upper anvil assembly: 1.40Kg (0.67LB) Lower anvil assembly: 3.25Kg (7.24LB) |
| Variable angle peel |  | | Maximum Load: 1KN (225LBF) Sled width: 150mm (5.9in) Maximum Peel Length: 250mm (9.84in) Maximum Substrated dimensions: Width-130mm (5.1in) Length- 250mm (9.84in) Maximum substrate thickness: 7mm(0.27in) Available angles: 30°, 45°, 60°, 90°, 120°, 135°, 150° |