

Instron 5969 (± 50 kN)



Overview

- ± 50 kN bench-top servo-electric universal test machine suitable for general mechanical testing at low-mid range load levels

Applications

Product/service	Loading modes	Main uses	Materials
<ul style="list-style-type: none">• Low-mid load range mechanical testing• Training	<ul style="list-style-type: none">• Compression• Tension• Flexure• Shear• Tear• Peel• Puncture	<ul style="list-style-type: none">• Quasi-static tests• Creep• Cyclic loading	<ul style="list-style-type: none">• Composites• Polymers• Coatings• AM• Metals

Recent use cases

- 1,000 hour compression creep measurement (constant load) for carbon fibre-reinforced polymer composite used in an oil and gas application (3rd party contract)
- Measurement of tensile modulus of thin polymer films loaded with graphene; strain measured using non-contact Imetrum system (Manchester University in conjunction with NPL's Surface Technology Group)
- Demonstration of good practice for quasi-static compression testing of CFRP materials to ISO 14126; part of trial of "Composite Materials Assurance" training course