

Instron 8802 (± 250 kN)



Overview

- ± 250 kN compact, floor-standing servo-hydraulic fatigue test system
- Suitable for various static and dynamic testing requirements for advanced materials and component testing; ideally suited for fatigue testing and fracture mechanics

Applications

Product/service	Loading modes	Main uses	Materials
<ul style="list-style-type: none">• Mechanical durability testing• Fatigue life characterisation	<ul style="list-style-type: none">• Compression• Tension• Flexure	<ul style="list-style-type: none">• Low-cycle fatigue of coupons & components; tension-tension, compression-compression and tension-compression regimes• Crack onset and growth• Frequencies up to 20 Hz	<ul style="list-style-type: none">• Composite• Metals• AM• Polymers

Recent use cases

- Characterisation of compression-after-impact (CAI) fatigue life performance of quasi-isotropic carbon fibre-reinforced composite laminates; damage growth monitored using pulse thermography
- Tension-tension, compression-compression and tension-compression fatigue testing of composite scarf joints in conjunction with linear location acoustic emission monitoring for damage detection

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