Instron 8802 (±100 kN)



Overview

- 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
 Mechanical durability testing Fatigue life characterisation 	CompressionTensionFlexure	 Low-cycle fatigue of coupons & components; tension-tension, compression-compression and tension-compression regimes Crack onset and growth Frequencies up to 20 Hz 	CompositeMetalsAMPolymers

Recent use cases

- Flexural fatigue life of glass-fibre reinforced epoxy material determined out to 10⁷ cycles at 15 Hz; maximum stress versus cycles to failure (S/N) plots generated
- Mode I fatigue crack onset and growth of structural adhesive used for bonding glassfibre reinforced composite adherends
- Characterisation of end-loaded compression-compression fatigue life of composites used for renewable energy applications