

## Instron 8872 ( $\pm 25$ kN)



## Overview

- Compact, bench-top 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
- Primarily to be used for fatigue of composites and metallic coupons and components; tension-tension, compression-compression and tension-compression regimes

## Applications

Product/service	Loading modes	Main uses	Materials
	<ul style="list-style-type: none"><li>• Compression</li><li>• Tension</li></ul>	<ul style="list-style-type: none"><li>• Testing undertaken at quasi-static rates and fatigue frequencies typically up to 20 Hz</li></ul>	<ul style="list-style-type: none"><li>• Composite</li><li>• Metals</li><li>• AM</li><li>• Polymers</li></ul>

## Recent use cases

- Through-thickness fatigue of fibre-reinforced plastic composites
- Testing of ceramic-metal hip joints in an aqueous environment