

# Instron 8801 Thermo-Mechanical-Fatigue (TMF) ( $\pm 100$ kN)



## Overview

- $\pm 100$  kN floor-standing modified 8801 servohydraulic test frame providing analysis of combined thermal and mechanical loading cycles of high-performance materials

## Applications

Product/service	Loading modes	Main uses	Materials
<ul style="list-style-type: none"><li>• Characterization of materials under combined thermal and mechanical cyclic loading</li></ul>	<ul style="list-style-type: none"><li>• Compression</li><li>• Tension</li></ul>	<ul style="list-style-type: none"><li>• Effects of different loading phases on materials</li><li>• TMF crack initiation in superalloys for gas turbines generators</li><li>• TMF life prediction of hot section components in jet engines</li></ul>	<ul style="list-style-type: none"><li>• Metals</li><li>• AM</li></ul>