

Instron 8805 ($\pm 1,000$ kN)



Overview

- Large floor-standing servo-hydraulic fatigue testing system
- Increases load capacity from ± 500 kN (quasi-static) and ± 200 kN (fatigue) to $-1,000$ kN compression (quasi-static), $+500$ kN tension (gripped quasi-static) and ± 500 kN (fatigue)
- Primarily to be used for quasi-static and fatigue loading of wide, thick coupons (composites, metals, additive manufactured materials) and structural elements e.g. compression of stiffened composite panels, flexure of I-beams and pipes

Applications

Product/service	Loading modes	Main uses	Materials
• High load range quasi-static and fatigue mechanical testing	• Compression • Tension • Flexure	• Quasi-static and cyclic fatigue of structural elements & small components e.g. stiffened composite panels	• Composite • Metals • AM • Polymers