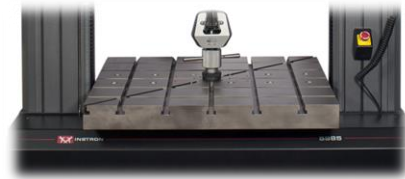


Instron 5985 (± 250 kN)



Overview

- ± 250 kN extra-height, extra-width, T-slotted floor standing electromechanical universal test machine, primarily used for medium-high load measurements; fitted with ± 250 kN hydraulic wedge-action grips

Applications

Product/service	Loading modes	Main uses	Materials
<ul style="list-style-type: none">• Mid load range mechanical testing• Training	<ul style="list-style-type: none">• Compression• Tension• Flexure• Shear• Tear• Peel• Puncture	<ul style="list-style-type: none">• Quasi-static tests• Non-ambient materials characterisation	<ul style="list-style-type: none">• Composites• Polymers• Coatings• AM• Metals

Recent use cases

- Mechanical testing of simulated fuel channels found within certain UK nuclear Advanced Gas-cooled Reactor (AGR) cores. A wire brush with an interference fit with the graphite fuel channel was raised and lowered, simulating 'charging' and 'discharging'. By observing the load trace captured during this process, the customer was able to compare the NPL results with traces from nuclear power stations in operation