Instron 5985 (±100 kN)



Overview

• ± 100 kN extra-height, floor standing servo-electric universal test, primarily used for medium-high load measurements. Fitted with an environmental test chamber & extended hydraulic wedge-action grips facilitating measurements at non-ambient conditions

Applications

Product/service	Loading modes	Main Uses	Materials
 Mid load range mechanical testing (non- ambient) Training 	 Compression Tension Flexure Shear Tear Peel Puncture 	 Quasi-static tests Non-ambient materials characterisation 	 Composites Polymers Coatings AM Metals

Recent use cases

- Characterisation of the end-loaded compression properties of unidirectional pultruded carbon fibre composites at -40°C, room temperature and +70°C; generation of design allowable data for customer
- Mechanical measurements of printed circuit board (PCB) materials at -25°C, room temperature and +100°C; determination of tensile modulus for input to predictive modelling
- Characterisation of the mode I fracture toughness of adhesively bonded metallic material systems down to -100°C; validation of bondline mechanical performance at low temperatures