

## Instron E3000 (ElectroPuls)



## Overview

- Small bench-top linear motor technology test system capable of slow-speed static and high-frequency fatigue testing, situated in teaching area of G9-L5
- Primarily used for quasi-static and dynamic, low (less than 3 kN) load measurements on a range of material classes including polymers, composites, coatings, metals and additive layered manufactured materials
- Ideal for teaching students and staff that are new to materials testing

## Applications

Product/service	Loading modes	Main uses	Materials
<ul style="list-style-type: none"><li>• Low load range quasi-static and fatigue mechanical testing</li></ul>	<ul style="list-style-type: none"><li>• Compression</li><li>• Tension</li></ul>	<ul style="list-style-type: none"><li>• Quasi-static and fatigue testing of small scale test coupons and components</li></ul>	<ul style="list-style-type: none"><li>• Composite</li><li>• Metals</li><li>• AM</li><li>• Polymers</li></ul>

## Recent use cases

- Measurement of initial stiffness of miniature helical springs
- Peel resistance characterisation of wax strips for hair removal