

Dynamic Tear Tester



A drop weight impact tester for measuring the fracture characteristics and fracture ductility of steel specimens according to the following standard:

ASTM E604, Dynamic Tear Testing of Metallic Materials.

- Very robust construction stands up to the rigours of high energy testing to provide high reliability with a minimum of downtime.
 - Easily interchangeable contact parts simplify maintenance and reduce cost of ownership.
 - State-of-the-art testing accommodates impact energies up to 5,700J and specimens up to 16mm thick.
 - Very high levels of safety employing multiply redundant systems, compliant with EEC machinery safety directives.
 - Automated specimen loading provides compliance with cycle times required by test methods, while maintaining operator safety.
 - Very rigid base and anvils ensures very low flexure under high test loads.
 - Guided mass system to ensure that the impact geometry is correct throughout the entire test.
 - Highly accurate and repeatable drop parameters.
 - High quality, easy to use control software ensures consistency and enhances throughput.
 - Ergonomically designed, no requirement for the operator to work at elevated heights or handle excessive physical loads.
- Instrumentation package to measure impact force up to 750kN. Provides values for peak force, crack initiation and propagation energies, and total energy to fail, together with a high-resolution force-deflection curve to analyse failure mode.
 - Optional variable mass system to provide precise control over impact parameters.
 - Optional high speed, fully integrated video system to provide visualization of specimen failure mode.
 - Optional liquid cooled temperature conditioning bath.
 - Optional specimen notching apparatus.
 - Responsive life-time technical support.

Product Range

DWT40-DTT impact energy up to 5,700J requiring a floor-to-ceiling height of 4.7m (230kg impact mass at 5.0m/s to 7.0m/s impact velocity)

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