

IM10T Drop Weight Impact Testers



A highly versatile range of drop weight impact testers for performing a wide range of medium energy tests on materials, specimens and end products of various geometry.

- Laboratory grade instrumentation and very rigid construction for highest accuracy test results.
 - Guided mass system to ensure that the impact geometry is correct throughout the test.
 - Highly accurate and repeatable drop parameters.
 - Very robust construction stands up to the rigours of dynamic testing to provide high reliability with a minimum of downtime.
 - Easily interchangeable contact parts simplify maintenance and reduce cost of ownership.
- Very high levels of safety employing multiple redundant systems, compliant with 89/392/EEC and 91/368/EEC machinery safety directives.
 - High quality, easy to use control and analysis software ensures consistency and enhances throughput.
 - Simple service requirements of single phase mains electricity and compressed air reduce installation costs.
 - Multiple impact facility for fatigue testing.
 - Wide range of strikers, anvils, fixtures and jigs available for standard test geometries, and for custom testing.
 - Optional sample strippers for extracting striker from tough ductile specimens.
 - Optional second impact prevention system for non-penetrating tests.
 - Optional high velocity impact option for impact velocities up to 20m/s.
 - Optional dynamic displacement measurement system for direct measurement of the sample deformation.
 - Optional high speed, fully integrated video system to provide visualization of specimen failure mode.
 - Optional temperature conditioning chamber, -70°C to +200°C.
 - Responsive life-time technical support.

Product Range

- IM10T-15** impact energy up to 440J requiring a floor-to-ceiling height of 4.0m (5kg to 30kg impact mass at 1.0m/s to 5.42m/s impact velocity)
- IM10T-20** impact energy up to 588J requiring a floor-to-ceiling height of 4.5m (5kg to 30kg impact mass at 1.0m/s to 7.0m/s impact velocity)
- IM10T-30** impact energy up to 882J requiring a floor-to-ceiling height of 5.5m (5kg to 30kg impact mass at 1.0m/s to 7.7m/s impact velocity)

Custom drop heights, High Velocity and a high mass option up to 100kg available