IM10 Type R 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.
- Wide range of strikers, anvils, fixtures and jigs available for standard test geometries, and for custom testing.
- Optional low mass and high mass carriages provide impact mass range from 2kg to 50kg and impact energy range from 1Joule to 980 Joules.
- Optional sample strippers for extracting striker from tough ductile specimens.
- Optional second impact prevention system for non-penetrating tests with multiple impact facility for dynamic fatigue testing.
- 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

IM10R-10 impact energy up to 294J requiring a floor-to-ceiling height of 4.0m (1.0m/s to 4.43m/s impact velocity)

IM10R-15 impact energy up to 440J requiring a floor-to-ceiling height of 4.5m (1.0m/s to 5.42m/s impact velocity)

IM10R-20 impact energy up to 590J requiring a floor-to-ceiling height of 5.0m (1.0m/s to 6.26m/s impact velocity)