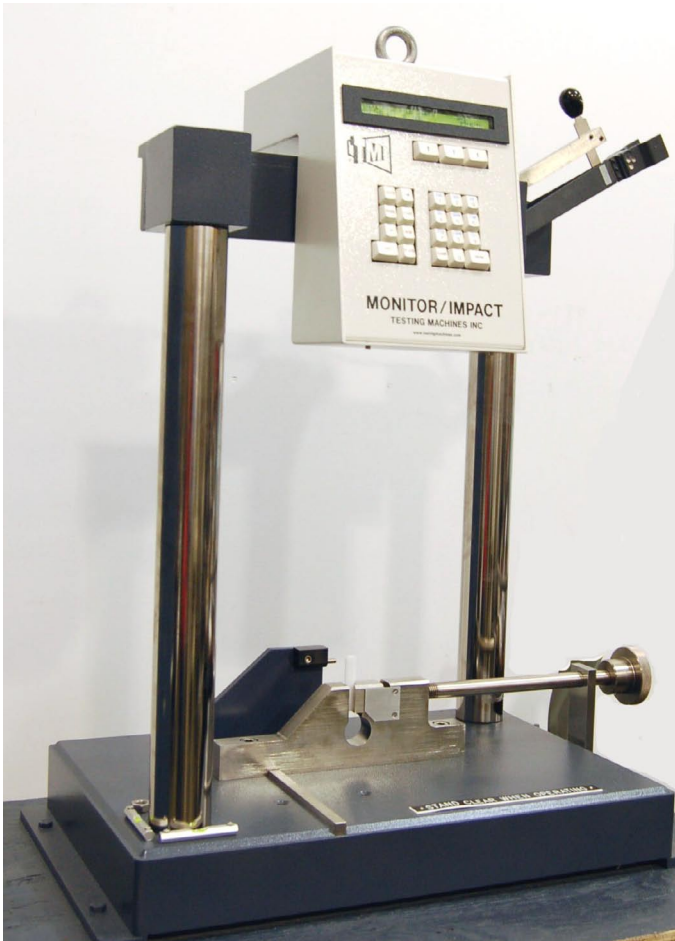


MONITOR IMPACT TESTER

43-02-01



Impact testers are designed to determine the impact energy required to break a sample. This information is crucial to manufacturers, as the strength and durability of the product will often determine performance characteristics and marketability.

The TMI Impact Testing System uses a high resolution optical encoder and data acquisition to determine the impact resistance of rigid materials in accordance with a wide variety of ASTM and ISO test standards. Interchangeable pendulums and specimen holders are available to measure the impact resistance of a variety of materials. Common test methods include Izod, Charpy, Tension and Laminate testing. Environmental chambers are also available to deliver CO₂ or N₂ allowing the characterization of materials at cold temperatures. Essentially the Impact test is a single point test that measures a materials resistance to impact from a swinging pendulum. The mass and drop height deliver a definable kinetic energy. This test can be used as a quick and easy quality control check to determine if a material meets specific impact properties or to compare materials for general toughness.

The Monitor/Impact tester's software provides classification of specimen according to failure

category (full, partial, hinge and non-break) plus excessive elongation or necking. Other features include auto-calibration of pendulums, automatic compensation for windage and friction, selectable units, statistics, average, standard deviation and high/low results.

APPLICATIONS

Plastics, Rubber, Light Metals, Ceramics, Wood, Laminates, Adhesives

STANDARDS

Conforms to
ASTM D256 and ISO 180 for Izod,
ASTM D256 and ISO 179 for Charpy
ASTM 6110 for Charpy
ASTM D1822 for Tension Impact testing

OPTIONS

A complete line of Izod, Charpy, and Tension Impact accessories are available. Other options include temperature chamber, pneumatic clamp, variable drop height attachment and report printer.

FEATURES

- Digital display, storage and editing of up to 500 readings
- Selectable units (J/m, ft•lb./in., kg•cm/cm, ft•lb/in², kg•cm/cm², kJ/m²)
- RS-232, settable limits, statistics-average, standard deviation, and high/low results
- Classification of specimens according to failure category (full, partial, hinge and non-break, plus excessive elongation or necking)
- Auto calibration - automatically calibrates for windage and friction
- Hammers are quickly and easily interchangeable

