Ray-Ran

Manual Advanced Falling Dart Impact Tester

RR-FDT-MA

The Ray-Ran Manual Falling Dart Impact Tester provides simpler method for determining the energy that causes thin flexible materials such as plastic film, paper and composite sheets to fail under specified conditions of impact from a free-falling dart. The energy required to cause Initial Failure to the test specimen is expressed in terms of the dart's weight, which would result in the failure of 50% of specimens being tested. The instrument complies with the ASTM D1709 Method A & B and ISO 7765 part 1.

Brought to you by Ray-Ran, our plastics and polymers testing specialist brand, the Manual Advanced Falling Dart Impact Tester measures the energy that causes thin flexible materials to fail.

Utilizing microprocessor technology, the Advanced Falling Dart Impact Tester offers advanced capabilities at an affordable price. Its ease of use and high accuracy make it ideal for product development and quality control. The large LCD provides instructions, while the alpha/numeric keypad allows users to enter and store test parameters for future recall.

The instrument is floor-standing with a telescopic arm for adjusting the dart drop height between 660 mm (Method A) and 1524 mm (Method B). It comes standard with the 1½-inch spherical radius tup for Method A testing, with 2-inch Method B darts and weights sold separately. The dart release mechanism requires both hands for safety, and a clamp guard protects operators from falling darts.

Designed for repeatable testing, the two-piece clamp system ensures constant tension across the specimen. A known-weight dart free falls, with added weights determining initial failure. "Fails" and "Non-fails" are automatically stored for easy result calculation.

The apparatus includes Ray-Ran's Techni-Test Windows-based software for connection via mini USB or Ethernet. Test results can be printed or saved as .CSV files for manipulation in Microsoft Excel or report preparation.

Specifications

- **Conforms to ISO 7765 and ASTM D1709 Methods A**
- **Built in Microprocessor**
- **Floor mounted**
- **Pneumatically operated**
- **Simple set up and operation**
- **Low maintenance**
- **Unique constant tension sample clamping**
- **2 hand safety operation for clamp and dart release**
- **Fixed height assembly 0.66 mtrs**
- **Method A 1.5" aluminium tup and weight set**
- **Set of 2 x 5g, 8 x 15g, 8 x 30g, 8 x 60g weights**
- **Fail, non-fail test counters**

Weights & Dimensions

Weight:	70 kg
Dimensions:	53 x 72 x 260 cm (WxDxH)
Power:	110-240VAC, 50-60hz
Display:	160 x 128 dots graphic LCD module with alphanumeric keypad

Contact Details

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INDUSTRIAL PHYSICS

Ray-Ran