

## Falling Dart Impact Tester BMC-B1

This falling dart impact tester is designed and manufactured according to Chinese state standard GB 9639 and ASTM D 1709.

It is applicable for energy tests which cause plastic films and foils to fail under specified conditions of impact of a free falling dart. This energy is expressed in terms of the weight of the dart falling from a specified height which would result in 50% failure of specimens tested.

### Principle

At the beginning of the test, choose a test method, and estimate an initial weight.

Start the test.

If the first specimen fails, decrease mass of the falling dart by changing the weight. If the first specimen isn't a failure, add mass to the falling dart by increasing the weight.

The energy is expressed in terms of weight of the dart. When 50% of the film specimens fail under the conditions specified. Then the test calculates the total test results automatically according to a special formula.

### Features

- Touch screen
- Windows visual menu interface
- Dual test methods A or B
- Built-in observation light
- Pneumatic samples clamp and release
- Falling dart electromagnetic control and automatic release
- Two start modes: hand- and foot-pedal
- Automatic testing status judgment
- Multi-units result display and incorporated printing
- Display testing procedure using graphs
- RS232 interface
- Network transmission interface for LAN data management and Internet data transmission



## Technical specifications

### Test method

A or B

### Test range

Method A: 50 - 2000 g

Method B: 300 - 2000 g

### Test accuracy

0.1 g (0.1 J)

### Specimen Size

> 150mm x 150mm

### Power

AC 220V 50Hz

### Pneumatic air pressure

6 bar

## Physical specifications

### Dimensions

Method A: 500 mm x 450 mm x 1320 mm

Method B: 500 mm x 450 mm x 2160 mm

### Net Weight

70 kg

### Standards

ASTM D1709, ISO 7765, JIS K7124, GB 9639

### Configuration

Standard: Method A configuration, touch screen, mini-printer

Optional: Method B configuration, professional software, communication cable, accessories for falling ball tests

Note: Compressed air provided by the customer