



# Thwing-Albert Instrument Company

**More Than a Century of Testing Solutions**

## Dart Drop Impact Tester

The dart drop tester is an easy-to-use, ergonomically designed instrument used to measure the impact resistance of plastic film, coated paper and other materials.

### How it Works

A pneumatic sample clamp is used to secure the specimen in place for ease of operation and operator safety. The operator needs to simultaneously activate dual switches mounted on either side of the instrument to engage the clamp and initiate the dart drop.

In addition, the dart drop tester provides a dual clamping sequence. The first phase utilizes low-pressure to safely clamp the sample followed by a high-pressure clamp prior to testing. The final phase of the test is completed with an automatic dart release.

### ASTM D1709 - Method A

Dart 38.1 mm diameter  
Drop height .66 m (26 in)

### Dimensions (W x D x H)

41 cm x 41 cm x 120 cm (16 in x 16 in x 47 in)

### ASTM D1709 - Method B

Dart 50.8 mm diameter (stainless steel)  
Drop height 1.524 m (60 in)

### Dimensions (W x D x H)

41 cm x 41 cm x 206 cm (16 in x 16 in x 81 in)

### Weight

18 kg (40 lbs)

### Dart Options

Phenolic head: 38.1 mm (1.5 in) diameter, 50 g  
Aluminum head: 38.1 mm (1.5 in) diameter, 50 g  
Stainless Steel head: 50.8 mm (2 in) diameter, 300 g

*Specifications subject to change without notice.*



### Features:

- Ergonomic tabletop design
- Pneumatic dart release
- Wide range of incremental weights
- Weight set included
- Cushioned dart landing area
- Meets ASTM D1709 , ISO 7765-1, ASTM D5628 - Geometry FB

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