

DAVENPORT™ FALLING DART Impact Tester

Description

Model A: Complies with BS2782: Part 3: Method 352D and ASTM D 1709 Method A. Single dart drop of 660 mm and drop weights from 1g up to a total of 1640g. The sample is held down by a vacuum and clamping ring. A 20g dart is supplied suitable for testing thin film and the edge of tubular film of low impact strength.

Model B: Identical to option A except that the sample is held down by a pneumatically operated clamp. For safety reasons, the full clamping pressure can only be applied when both the operators hands are completely clear of the clamping system.

Model C: Complies with BS2782 Method 352D and ASTM D 1709 Methods A and B. Two dart drop height, 660 mm and 1525 mm. Additional darts and weights up to 1210g.

The falling dart impact tester determines the impact resistance of plastic film by the free falling dart method. The apparatus establishes the energy required to tear film specimens under specified conditions of impact of a free falling dart. The energy is expressed in terms of the weight of the dart when 50% of the film specimens fail under the conditions specified. The sample is held down by a pneumatically operated clamp. A range of weights is provided to enable tests to be performed on various film thicknesses. The working range of the weights is established by finding the weight that will just break the sample film.

Features

- Simple set-up, operation and maintenance
- Complies with International Standards
- Pneumatic clamping for stronger films
- Automatic release of dart at correct angle
- Dual height option
- Floor mounted system
- Heavy Duty, hard-wearing design



Specifications

Mounting:	Floor
Electrical Supply:	220/240V 50Hz or 100/120V 60Hz
Standards:	BS2782: Part 3: Method 352D, NFT54-109, ASTM D 1709 Methods A and B
Dart Head Diameters Method A:	38.10 mm
Dart Head Diameters Method B:	50.80 mm
Weights Supplied	
ASTM D 1709 Method A, Optn A:	1g up to a total of 1460g (inc dart weight) 1 x 1g, 2 x 2g, 1 x 5g, 1 x 10g, 1 x 15g 1 x 20g, 1 x 40g, 2 x 50g, 2 x 100g 1 x 200g 2 x 550g
Weights supplied (additional)	
Methods A and B, Options B and C:	2 x 15g, 8 x 45g, 8 x 90g up to a total of 1210g
Dart Weights	
Method A, Option A:	1 x 20g, 1 x 60g
Dart Weights	
Options B and C:	1 x 20g, 1 x 60g, 1 x 100g
Dart Drop Heights:	660 mm Options A, B and C Method A 1525 mm Options C Method B
Heights:	1650 mm Options A and B 2565 Option C
Weight -Gross:	150 Kg

SPECIFICATION
SS-RH-7401
April 2001

INTERNET
www.ametek.com
www.chatillon.com
www.lloyd-instruments.co.uk

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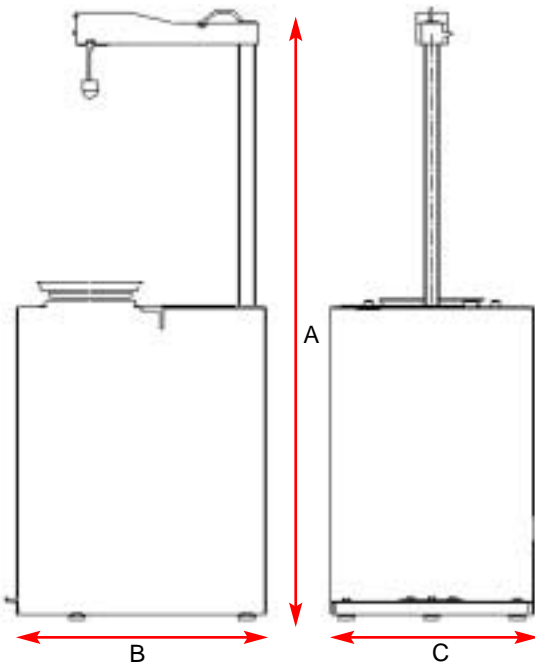
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Ordering Information

Model	Part No.	Description
FDA/115	01/2847	115V Falling Dart Impact Tester Model A
FDA/230	01/2343	230V Falling Dart Impact Tester Model A
FDA/115	01/2862	115V Falling Dart Impact Tester Model B
FDA/230	01/2344	230V Falling Dart Impact Tester Model B
FDA/115	01/2853	115V Falling Dart Impact Tester Model C
FDA/230	01/2345	230V Falling Dart Impact Tester Model C

Product Dimensions

(NTS)



	mm	in
A (option A & B)	1650	65
A (option C)	2565	100
B	840	33
C	500	20

Standard Accessories

Item		Part No.
Weights		
1g weight	FD/WT/1	50/61/10
2g weight	FD/WT/2	50/61/9
5g weight	FD/WT/5	50/61/8
10g weight	FD/WT/10	50/61/7
15g weight	FD/WT/15	50/61/6
20g weight	FD/WT/20	50/61/5
40g weight	FD/WT/40	50/61/4
45g weight	FD/WT/45	719/7/2
50g weight	FD/WT/50	50/61/3
90g weight	FD/WT/90	719/7/3
100g weight	FD/WT/100	50/61/2
200g weight	FD/WT/200	50/61/1
550g weight	FD/WT/550	50/63
Darts		
10g Dart	FD/DART 10	07/1784
20g Dart	FD/DART 20	07/1783
60g Dart	FD/DART 60	07/1782
100g Dart	FD/DART 100	07/1781

AMETEK®

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Information within this document is subject to change without notice.

ISO 9001
Manufacturer