



Model DX-8485-A Dart Drop Tester with Total Energy Dart Impact Capability

High-Performance Dart Drop Impact Tester with Total Energy Capability

Oakland Instrument offers the Series DX-8485-A Total Energy Dart Impact Tester, designed with a number of innovative capabilities available to film extruders and flexible packaging manufacturers for the first time. This instrument enables users to:

- Accomplish pass/fail, staircase and total energy dart drop tests with a single test instrument;
- Measure dart weight information, dramatically increasing test speed and accuracy, and;
- Make process improvement added by graphical information displaying dart weight values alongside pass/fail data.

By adding our Load Cell Option and automatically measuring and recording dart weight, the DX-8485-A eliminates the need for manual measurement and/or weighing of darts and data entry – reducing errors and speeding up the testing process.

A velocity meter integrated to measure dart speed gives operators the option of performing total energy testing in addition to traditional pass/fail or staircase dart drop tests. The total energy test provides an actual impact resistance value with a single dart drop – compared to 5-10 drops for the pass/fail test or up to 25 drops for the staircase test.

By integrating the precision load cell and combining it with pass/fail information, the DX-8485-A offers improved dart drop test accuracy and speed compared to other instruments.

In addition, the load cell enhances the flexibility of this instrument's total energy test option: Instead of requiring operators to choose among five preselected fixed weights, the DX-8485-A's firmware enables operators to select a variable weight (20 g-1,135 g) most appropriate for their film. Being able to choose a weight not significantly greater than their film break strength results in improved resolution and test accuracy.

Another commonly used test method, "increment to failure" testing, will soon be added to the DX-8485-A's software. Requiring fewer dart drops than traditional pass/fail and staircase testing, this method allows operators to make process decisions based on where failure point lies in relation to guarantee point

The Model DX-8485-A Total Energy Dart Impact Tester with Integrated Load Cell. Standard load cell size is 11.4 kg (25 lb). Sample screen for DX-8300 software shown at the right.

Oakland Instrument Corp.

Oakland Instrument Corp. specializes in the design, manufacture and distribution of test, measurement and control systems for the plastics, flexible packaging, and paper industries.

Customer-Driven

We team with our customers to help them solve their quality and process-control problems.

Technology-Based

Our applications knowledge and engineering depth allow us to offer both standard and custom systems based on industry leading technology.



Sample Pass/Fail screen using Oakland's DX-8300 Dart Impact Software

The Oakland Advantage

Conforms to ASTM and ISO Standards

Conforms to specifications for both ASTM D-4272 Total Energy Impact of Plastic Films by Dart Drop as well as ASTM D1709 Methods A & B Standard Test Method for Free Falling Dart Impact Testing of Plastic Film and ISO-7765-1 Plastics film and sheeting – Determination of impact resistance by the free-falling dart method – Part 1 – Staircase method.

Specifications

Model DX-8485-A

Mode of operation:	Off-line testing / lab use Pass/fail dart drop testing Staircase dart drop testing Total energy impact testing
Materials:	All sheet materials
Test Method Drop Height:	Method A 66 cm (26 in)
Actuation Method:	Electronic
Dart Release Mechanism:	Pneumatic
Sample Clamp Mechanism:	Pneumatic
Dart Set Included: ASTM D-1709	Method A: Total 412 g (2) 120 g (1) 60 g (1) 30 g (2) 15 g
Dart Set Included: ASTM D-4272	Method A" 227 g (0.5 lb) 454 g (1.0 lb) 681 g (1.5 lb) 908 g (2.0 lb) 1,135 g (2.5 lb)
Optional Dart Set: ASTM D4272 ASTM D5628	1,000 g (2.2 lb) Not Applicable
Dart Head Material: Standard	Aluminum
Optional	Phenolic Stainless steel
Accessories:	Model DX-8300 Dart Drop Software Model DX-8300 Pass/Fail Interface System, Top Mounted Pass/Fail Push-buttons Electronic Footswitch Actuator Option for Sample Clamp Electronic Footswitch Actuator Option for Dart Release
Options:	Optional Two-Button, Safety Actuated, Electronic Sample Clamp, Side Mounted Optional Side Mounted Pass/Fail Push buttons with Pass/Fail Interface System
Compressed Air Requirements:	620 kPa (90 psig), dry & filtered
Power Requirements:	115 VAC or 230 VAC
Height:	201 cm (79 in)
Weight:	39 kg (85 lb)

(Due to continuous product improvement, all specifications are subject to change without notice.)

Ordering Information



Distributed by:
Plastics Touchpoint Group, Inc.
152 Rimmington Drive
Thornhill, Ontario, Canada, L4J 6K1
Tel: 416-788-9742
Email: info@plasticstouchpoint.com
Website: www.plasticstouchpoint.com

BRO DX8485-0122C
Manufactured by:
Oakland Instrument Corp.
5220 12th Avenue East
Shakopee, Minnesota 55379 USA
Website: www.oaklandinstruments.com