



The Model DX-8585-A Advanced Dart Drop & Total Energy Impact Tester with Integrated Load Cell. Standard load cell size is 11.4 kg (25 lb). Sample screen for DX-8300 software also shown.

Model DX-8585-A Advanced Dart Drop & Total Energy Impact Tester

High-Performance Dart Drop Impact Tester with High Capacity Total Energy Capability for Plastic Films and Sheets

Oakland Instrument introduces its DX-8585-A Total Energy Impact Tester

Designed with a number of innovative capabilities available to blown film extruders and flexible packaging manufacturers for the first time, this instrument enables you to:

- accomplish pass/fail, staircase and total energy dart drop tests with a single test instrument;
- measure dart weight information with our DX-8300 Dart Drop Software package, dramatically increasing test accuracy and speed; and
- make process improvements aided by graphical information display of dart impact strength alongside pass/caution/fail test conditions.

By automatically measuring and recording dart weight, the DX-8585A eliminates the need for manual measurement and/or weighing of darts for data entry.

Laser-based velocity meter measures dart speed, giving operators the option of performing total energy tests in addition to traditional pass/fail or staircase dart drop tests. Total energy test provides actual impact resistance values with a single dart drop – compared with the 5 - 10 drops required for the pass/fail test or up to 25 drops for staircase test.

Features and Benefits

- Meets both ASTM D-4272 "Total Energy Impact of Plastic Films by Dart Drop" and D-1709 "Impact Resistance of Plastic Film by the Free-Falling Dart Method".
- Accommodates heavier loads for **Brittleness Testing** of plastic sheet, increasing test capacity to 4500 grams.
- New Integral Tube-Mounted Speed Sensor Assembly eliminates vibration effects from heavier dart loads.
- Innovative pneumatic, control-integrated, dash-pot dart capture bucket handles dart loads up to 5000 grams. Safety interlocks prevent the dart from being released unless capture bucket is in place and ready to accept dropped dart.
- Safety features and guards to enhance safe operation during sample loading, & dart guiding, during testing.
- Added a Load Cell to our Updated Pneumatic Dart Release system to (not only) enter the (5) standard missile weights used with traditional Total Energy Dart Drop testing, but also allows keypad-entered selection of missile weights from 1500 gr. to 4500 gr. as required when testing plastic sheet up to 25 mils thickness.

Oakland Instrument Corp.

Specializes in the design, manufacture and distribution of test and measurement systems for the plastics, packaging, film, sheet 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.

Specifications

Model DX-8585-A

Mode of operation:	Off-line testing / lab use; Pass/Fail dart drop testing; Staircase dart drop testing; Total Energy impact testing
Materials:	Plastic Film & Plastic Sheet
Test Method:	Method A
Drop Height:	26 inch (66 cm)
Actuation Method:	Electronic
Dart Release Mechanism:	Pneumatic
Sample Clamp Mechanism:	Pneumatic
Dart Capture Mechanism:	Pneumatic w/ Interlocks
Dart Set Included for ASTM D-1709 Dart Drop Test:	Method A: (412 g) (2) 120 g (1) 60 g (1) 30 g (2) 15 g
Dart Set Included for ASTM D-4272 Total Energy Test:	Method A: 0.5 lb (227 g) 1.0 lb (454 g) 1.5 lb (681 g) 2.0 lb (908 g) 2.5 lb (1,135 g)
Optional Stem, Dart Head & Dart Weight Set for Brittleness Testing:	1,000 g Method A Aluminum Method A Dart Head Aluminum Method A Total energy Dart Stem (1) 1000 g Method A Weight 4,000 g Method B Stainless steel Method B Dart Head Steel Method B Notched 16 inch Total Energy Dart Stem (8) 500 g Method B Weights
Optional Dart Set Incl. ASTM D-5628:	N/A
Dart Head Material Provided:	Aluminum (Method A); Stainless Steel (Method B)
Optional Dart Head Materials:	Phenolic (Method A)
Accessories:	Model DX-8300 Dart Drop Software Model DX-8300 Pass/Fail Interface System, Top Mounted Pass/Fail Push-buttons Electronic Footswitch Actuator(s) Option for Sample Clamp and 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
Air Requirements:	90 psi, dry & filtered
Power Requirements:	115 VAC or 230 VAC
Overall Dimensions:	Height 108 inch, Weight 85 lb

Ordering Information

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