

Series MT-1500 Precision Universal Testers

Full-Featured Force Test Stands / Universal Testers for Film, Paper, and Sheet Materials

In the past, film extruders, paper producers, converters, and woven/non-woven fabric producers have had the choice of test stands and universal test machines which are either value-priced peak-force-only machines, or expensive computer-operated integral-load cell machines. Now you can have the best of both worlds in a single instrument. Oakland Instrument offers the Series MT-1500, a simple to use computer operated tester, with Quality Control software for automatic calculation and graphical display of break, elongation, yield, modulus, and other tension and compression force information.

Improved Film & Paper Quality, Increased Profit Margins

Our Series 1500 Precision Universal Testers are a proven tool for your: Research and development of new film and paper products, converted materials, wovens/non-wovens, fabrics and textiles. Inspection of incoming film and paper products, In-process checks to ensure on-spec product for converting operations, and Quality-control reporting

The Oakland Advantage

Meets ASTM and TAPPI

Meets specifications of ASTM D882 Standard Test Method for Tensile Testing of Plastic Film and ASTM D3354 for Blocking Testing of Plastic Film and Sheet, and other standards.

Advanced Technical Features in Each Model

Expandable; Industry-Leading Software

Portable and expandable with optional software, printers and computer systems. A computer is required for operation. Advanced software for display/hard-copy reporting of statistical and graphical analysis of data.

User-friendly, Rugged, Affordable

Best of all, the series 1500 is economically priced, yet rugged enough for plant-floor use.

Unique, Modular Design

Test Stand can be set up with Load Cell mounted on the front of the column for easy access for strip testing, or with Load Cell mounted to the right of the column for access to the large working table area for testing.

Advanced Engineering & Technology

- * Tension & Compression Testing to 500 lb (2.5 kN)
- * Crosshead Travels up to 58 inches (1470 mm)
- * Peak Force, Average Force, and Stress/Strain Testing
- * Servo Motor Drive and Integral S-Type Load Cells
- * Broad Speed Ranges and Speed Turn-Downs for full range of testing requirements:
 - 0.1 - 20 ipm (1 - 500 mm/min) Standard Speed Range
 - 0.4 - 40 ipm (10 - 1000 mm/min) High Speed Option
- * Computer controlled with Model MT-2500 Software for Full Range of Testing, and Graphical & Statistical Display



The Model MT-1528 Precision Universal Tester with 50 lb (250 N) Integral Load Cell, Small (25psi) Pneumatic Sample Grips, and High Speed (40 ipm) Option. Shown with Load Cell mounted to Right of Column for Working Table Testing, and Computer System

Oakland Instrument Corp.

Oakland Instrument Corp. specializes in the design, manufacture and distribution of test, measurement and control systems for the plastics, packaging, film, sheet, paper, and non-wovens industries.

Customer-Driven

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

Technology-Based

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

Specifications	Model MT-1516	Model MT-1522	Model MT-1528	Model MT-1540	Model MT-1552
Mode of operation:	Off-line testing lab use Digital Force measurement	Off-line testing lab use Digital Force measurement	Off-line testing lab use Digital Force measurement	Off-line testing lab use Digital Force measurement	Off-line testing lab use Digital Force measurement
Capacity:	750 lb (3.5 kN)	750 lb (3.5 kN)	750 lb (3.5 kN)	500 lb (2.5 kN)	500 lb (2.5 kN)
Throat Depth: (Derated Capacity)	2.0 - 5.0 inch, adj. (2.0 in to 500 lb) (3.5 in to 250 lb) (5.0 in to 150 lb)	2.0 - 5.0 inch, adj. (2.0 in to 500 lb) (3.5 in to 250 lb) (5.0 in to 150 lb)	2.0 - 5.0 inch, adj. (2.0 in to 500 lb) (3.5 in to 250 lb) (5.0 in to 150 lb)	2.0 - 5.0 inch, adj. (2.0 in to 500 lb) (3.5 in to 250 lb) (5.0 in to 150 lb)	2.0 - 5.0 inch, adj. (2.0 in to 500 lb) (3.5 in to 250 lb) (5.0 in to 150 lb)
Load Cell Mounting Options:	1. Right Hand over Work Table 2. Front Mounted (Factory Preset)	1. Right Hand over Work Table 2. Front Mounted (Factory Preset)	1. Right Hand over Work Table 2. Front Mounted (Factory Preset)	1. Right Hand over Work Table 2. Front Mounted (Factory Preset)	1. Right Hand over Work Table 2. Front Mounted (Factory Preset)
Materials:	All Sheet Materials	All Sheet Materials	All Sheet Materials	All Sheet Materials	All Sheet Materials
Measurement Range:	0 – 2.2 lb (10N / 1000 g) 0 – 10 lb (50 N / 4500 g) 0 – 50 lb (250 N) 0 – 100 lb (500 N) 0 – 150 lb (750 N) 0 – 250 lb (1000 N) 0 – 500 lb (2000 N) (other ranges avail.)	0 – 2.2 lb (10N / 1000 g) 0 – 10 lb (50 N / 4500 g) 0 – 50 lb (250 N) 0 – 100 lb (500 N) 0 – 150 lb (750 N) 0 – 250 lb (1000 N) 0 – 500 lb (2000 N) (other ranges avail.)	0 – 2.2 lb (10N / 1000 g) 0 – 10 lb (50 N / 4500 g) 0 – 50 lb (250 N) 0 – 100 lb (500 N) 0 – 150 lb (750 N) 0 – 250 lb (1000 N) 0 – 500 lb (2000 N) (other ranges avail.)	0 – 2.2 lb (10N / 1000 g) 0 – 10 lb (50 N / 4500 g) 0 – 50 lb (250 N) 0 – 100 lb (500 N) 0 – 150 lb (750 N) 0 – 250 lb (1000 N) (other ranges avail.)	0 – 2.2 lb (10N / 1000 g) 0 – 10 lb (50 N / 4500 g) 0 – 50 lb (250 N) 0 – 100 lb (500 N) 0 – 150 lb (750 N) (other ranges avail.)
Measurement Accuracy:	+/- 0.02% Full Scale	+/- 0.02% Full Scale	+/- 0.02% Full Scale	+/- 0.02% Full Scale	+/- 0.02% Full Scale
Measurement Resolution:	0.01 lb / 0.001 lb. (Depending on range)	0.01 lb / 0.001 lb. (Depending on range)	0.01 lb / 0.001 lb. (Depending on range)	0.01 lb / 0.001 lb. (Depending on range)	0.01 lb / 0.001 lb. (Depending on range)
Speed Range: (Base Model)	0.1 – 20 ipm (1 – 500 mm / min)	0.1 – 20 ipm (1 – 500 mm / min)	0.1 – 20 ipm (1 – 500 mm / min)	0.1 – 20 ipm (1 – 500 mm / min)	0.1 – 20 ipm (1 – 500 mm / min)
Speed Accuracy:	+/- 0.01 ipm	+/- 0.01 ipm	+/- 0.01 ipm	+/- 0.01 ipm	+/- 0.01 ipm
High Speed Option: Speed Range:			0.4 – 40 ipm (10 – 1000 mm / min)	0.4 – 40 ipm (10 – 1000 mm / min)	
(Derated Capacity:)			(to 250 lb) (GB 5:1/1:1 (M12T : B12T))	(to 150 lb) (GB 5:1/1:1 (M12T : B12T))	
Crosshead Travel:	22.0 inches	28.0 inches	34.0 inches	46.0 inches	58.0 inches
Test Travel:	16.0 inches	22.0 inches	28.0 inches	40.0 inches	52.0 inches
Return Speeds:	1 – 20 ipm/Jog Speed	1 – 20 ipm/Jog Speed	1 – 20 ipm/Jog Speed	1 – 20 ipm/Jog Speed	1 – 20 ipm/Jog Speed
Power Requirements:	115 VAC, 60 Hz, 230 VAC, 50 Hz, or consult factory for special requirements				
Overall Height / Wt:	34 inch / 70 lb	40 inch / 75 lb	46 inch / 80 lb	58 inch / 90 lb	70 inch / 100 lb
Sample Rate:	1000 / sec.	1000 / sec.	1000 / sec.	1000 / sec.	1000 / sec.
Serial Data Communications:	RS-232, 9 pin D-Sub (2) or USB / Serial Adapter (2)	RS-232, 9 pin D-Sub (2) or USB / Serial Adapter (2)	RS-232, 9 pin D-Sub (2) or USB / Serial Adapter (2)	RS-232, 9 pin D-Sub (2) or USB / Serial Adapter (2)	RS-232, 9 pin D-Sub (2) or USB / Serial Adapter (2)

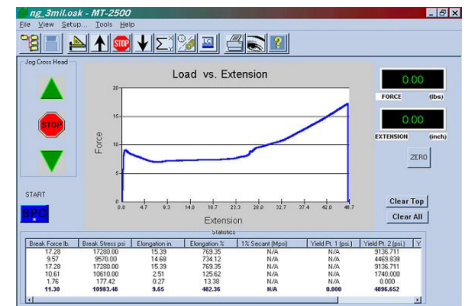
(Due to continuous product improvement, all specifications are subject to change without notice.)

Options and Accessories

Computer system and Model MT-2500 Quality Control Software for statistical and graphical analysis of force data, required to operate.

Options for COF Testing, Peel, Seal Strength Testing, Blocking Testing, Pneumatic, Mechanical Grips and Accessories.

Standard or Custom Systems to meet specific needs. Accessories.



Ordering Information

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