

# Model MT-1522-SF Precision Shrink Force Tester

## Full-Featured Force Test Stand with Shrink Force Test Fixture for Shrink Film Testing

In the past, film extruders, paper producers, and flexible packaging converters 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-1522-SF, a simple to use computer operated tester. Adding our Shrink Force Test Fixture enables testing of shrink forces generated in heating shrink films.

## **Improved Film & Paper Quality, Increased Profit Margins**

The Series 1500 Precision Force Test Stand is a proven tool for more closely controlling nominal and peak strength and elongation characteristics to speed 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

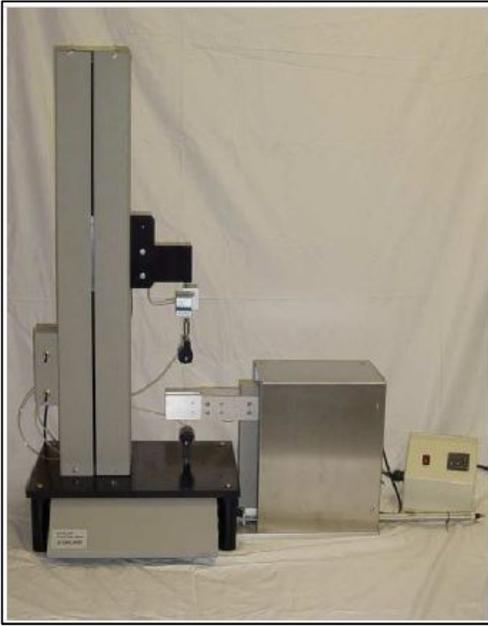
Best of all, the series 1500 is economically priced, yet rugged enough for plant-floor use.

#### 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 Range and Speed Turn-Down for full range of testing requirements
- \* Computer/Software-controlled with a 0.0 ipm (zero) Speed Setting to automatically perform film shrink force tests using our integral Shrink Force Test Fixture and Shrink Force Test Mode



*The Model MT-1522-SF Precision Shrink Force Tester with 10 lb (50 N) Integral Load Cell and Small (25psi) Pneumatic Sample Grips. Shown with Load Cell mounted to Right of Column for Working Table Testing and integral Shrink Force Test Fixture*

### **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

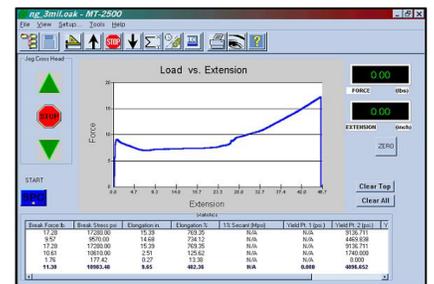
### Model MT-1522-SF

Mode of operation:	Off-Line testing/lab use for Film Shrink Force measurement
Frame Capacity:	750 lb (3.5 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)
Load Cell Mounting Options:	1. Right Hand over Work Table 2. Front Mounted (Factory preset)
Materials:	All Sheet Materials & Shrink films
Measurement Range:	0 - 10 lb (50 N / 4500 g) (other ranges avail.)
Measurement Accuracy:	+/- 0.02% Full Scale
Measurement Resolution:	0.005 lbs (0.1 grams)
Fixture Temperature Range:	60 – 150 deg. Centigrade
Sample Area:	2 inch (H) x 1 inch (W)
Temperature Control Method:	Digital Temperature Control (deg. F / deg. C selectable)
Speed Range:	0.0 - 20 ipm (0- 500 mm / min)
Speed Accuracy:	+/- 0.01 ipm
Crosshead Travel:	22.0 inches
Test Travel:	16.0 inches
Return Speeds:	1 - 20 ipm/Jog Speed
Power Requirements:	115 VAC, 60 Hz, 230 VAC, 50 Hz
Overall Height / Wt:	34 inch / 70 lb
Sample Rate:	1000 / sec.
Serial Data Communications:	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.



## Ordering Information

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