

Series SR-1500 UniversalPlus™ Advanced Force Testers

Full-Featured Stand-alone or PC-Controlled Force & Universal Testers for Film, Paper, and Sheet Materials

In the past, film extruders, paper producers, and 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 SR-1500 Series, a simple to use console-driven or computer-operated force tester.

Improved Film & Paper Quality, Ideal for Converters; with a Range of Grips & Fixtures for Single-Purpose Testing

The SR-1500 UniversalPlus™ Tester is a proven tool for: Research & development of new film or paper products, converted materials, tissue, and non-wovens. Inspection of incoming film and paper products, plus in-process checks to ensure on-spec product for converting operations.

The Oakland Advantage

Meets ASTM, TAPPI & ISO

Meets specifications of ASTM D-882 Standard Test Method for Tensile Testing of Plastic Film and ASTM D-638 Plastic Sheet Tensile Testing, and other ASTM, TAPPI, and ISO testing standards.

Advanced Technical Features in Each Model

Expandable; Industry-Leading Software plus Integrate with Gauging

- Portable & expandable with optional software, printers and test fixtures. A computer is not required for operation. Add advanced software for display & analysis of statistical and graphical data
- Integrate our MX-1100e MicroGauge to directly add sample thickness values to your console or software during testing for automatic calculation of thickness-normalized strength values

Unique, Modular Design

- Load Cell can be 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 with Fixtures

Advanced Engineering & Technology

- **Console-controlled** Testing on your SR-1500 Force Tester for:
 - Force Testing
 - Tensile or Bond Strength Testing
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- Capable of both Tension & Compression Testing
 - Peak Force, Average Force, and Stress/Strain Testing
 - Travels up to 40 inch (1000 mm), Speeds to 80 ipm (2000 mm/min)
 - Rugged, precise Servo Motor Drive and Integral S-Type Load Cells
 - **Optional Computer-control** with MT-2500 Software for Testing:
 - Force
 - Tensile or Bond Strength
 - Coefficient of Friction
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- Secant Modulus or Stiffness (Available June, 2022)
 - Elastic Recovery
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- Block Reblock (Available August, 2022)
 - Cling Peel



The Model SR-1540 UniversalPlus™ Universal Tester with 50 lb (250 N) Integral Load Cell and Standard 100 psi Pneumatic Sample Grips. Shown with Load Cell mounted to Right of Column for Working Table Testing.

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

	<u>Model SR-1540</u>	<u>Model SR-1528</u>	<u>Model SR-1522</u>
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
Frame Capacity:	750 lb (3.5 kN)	750 lb (3.5 kN)	750 lb (3.5 kN)
Throat Depth (Derated Capacity):	2.0 - 5.0 inch, adj. 1. (2.0 in to 500 lb) 2. (3.5 in to 250 lb) 3. (5.0 in to 150 lb)	2.0 - 5.0 inch, adj. 1. (2.0 in to 500 lb) 2. (3.5 in to 250 lb) 3. (5.0 in to 150 lb)	2.0 - 5.0 inch, adj. 1. (2.0 in to 500 lb) 2. (3.5 in to 250 lb) 3. (5.0 in to 150 lb)
Load Cell Mounting Options:	1. Right hand over Work Table 2. Front Mounted	1. Right hand over Work Table 2. Front Mounted	1. Right hand over Work Table 2. Front Mounted
Materials:	All Sheet Materials	All Sheet Materials	All Sheet Materials
Measurement Range:	0 - 10 lb (50 N / 5000 g) 0 - 50 lb (250 N) 0 - 100 lb (500 N) 0 - 250 lb (1250 N)	0 - 10 lb (50 N / 5000 g) 0 - 50 lb (250 N) 0 - 100 lb (500 N) 0 - 250 lb (1250 N)	0 - 10 lb (50 N / 5000 g) 0 - 50 lb (250 N) 0 - 100 lb (500 N) 0 - 250 lb (1250 N)
	4 Load Cell Capacities Available		
Measurement Accuracy:	+/- 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)
Sample Rate:	1000 / sec.	1000 / sec.	1000 / sec.
Test Speed Range: (Standard)	0.1 - 20 ipm (1 - 500 mm / min) (GB 10:1 / 1:1 (M 12T : B 12T))	0.1 - 20 ipm (1 - 500 mm / min) (GB 10:1 / 1:1 (M 12T : B 12T))	0.1 - 20 ipm (1 - 500 mm / min) (GB 10:1 / 1:1 (M 12T : B 12T))
High Speed Options: Speed Ranges:	1. 0.4 - 40 ipm, (10 - 1000 mm/min) 2. 1.0 - 80 ipm, (20 - 2000 mm/min)	1. 0.4 - 40 ipm, (10 - 1000 mm/min) 2. 1.0 - 80 ipm, (20 - 2000 mm/min)	1. 0.4 - 40 ipm, (10 - 1000 mm/min) 2. 1.0 - 80 ipm, (20 - 2000 mm/min)
(Derated Capacity)	1. 250 lb (GB 5:1 / 1:1 (M 12T : B 12T)) 2. 100 lb (GB 4:1 / 1.5:1 (M 18T : B 12T))	1. 250 lb (GB 5:1 / 1:1 (M 12T : B 12T)) 2. 100 lb (GB 4:1 / 1.5:1 (M 18T : B 12T))	1. 250 lb (GB 5:1 / 1:1 (M 12T : B 12T)) 2. 100 lb (GB 4:1 / 1.5:1 (M 18T : B 12T))
	3 Speed Ranges Available		
Jog Speed Range	1 - 20 ipm (10 - 500 mm / min)	1 - 20 ipm (10 - 500 mm / min)	1 - 20 ipm (10 - 500 mm / min)
Speed Accuracy:	+/- 0.01 ipm	+/- 0.01 ipm	+/- 0.01 ipm
Crosshead Travel:	46.0 inches	34.0 inches	28.0 inches
Test Travel:	40.0 inches	28.0 inches	22.0 inches
	3 Frame Sizes Available		
Return Speed:	Jog Speed	Jog Speed	Jog Speed
Power Requirements:	115 VAC, 60 Hz, 230 VAC, 50 Hz	115 VAC, 60 Hz, 230 VAC, 50 Hz	115 VAC, 60 Hz, 230 VAC, 50 Hz
Overall Height / Weight:	58 inch / 90 lb.	46 inch / 80 lb.	40 in. 72 lb.
Data Communications:	USB (Main Control), RS-232 (Thickness Data Import and Printer Export)		

Options and Accessories

- Range of Grip Options in both Mechanical & Pneumatic styles, Range of Fixtures Available
- MT-2500 Quality Control Software & Computer Systems for computer-controlled operation
- Model MX-1100e Touch-Screen MicroGauge for sample thickness data integration directly to your SR-Series Force Tester while testing; either Console-controlled or Computer-controlled
- Add an Oakland Model DT-1010 Sample Strip Cutter to complete your tensile testing system



Ordering Information

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