

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 Series SR-1500, a simple to use console or computer operated tester.

Improved Film & Paper Quality, Ideal for Converters with a Range of Fixtures & 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-sec product for converting operations.

The Oakland Advantage

Conforms to ASTM, ISO and TAPPI Standards

Conforms to ASTM D638, ASTM D882, ASTM D1934, ASTM D3330, ASTM F88, ASTM F904, ISO 527-1 standards for tensile testing of plastic film and sheet, ASTM D3354 for blocking of plastic film and sheet and TAPPI T-829 for score quality of paper and corrugated. Capable of many other tests with installation of suitable fixtures.

Advanced Technical Features in Each Model

Expandable; Industry-Leading Software plus integrate with Gauging

- Portable and expandable with optional software, printers and test fixtures. A computer is not required for operation. Add advanced software for display and analysis of statistical and graphical data.
- Integrate Oakland's 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.

Advances Engineering & Technology

- Capable of both Tension & Compression Testing
- Peak Force, Average Force and Stress / Strain Testing
- Travels up to 1015 mm (40 in.), Speeds up to 2030 mmpm (80 ipm)
- Rugged, precise Servo-Motor Drive and Integral S-Type Load Cells

Console-controlled testing on SR-1500 Force Tester for measuring:

- Force vs. elongation
- Tensile or Bond Strength

Computer controlled (optional with MT-2500 Software) for measuring:

- Force vs. elongation
- Tensile or Bond Strength
- Coefficient of Friction
- Secant Modulus or Stiffness
- Elastic Recovery
- Block / Re-block
- Cling Peel Strength



The Model SR-1540 UniversalPlus™ Universal Tester with 23 Kgf / 0.22 kN / 50 lbf Integral S-type Load Cell and Standard 690 kPa / 100 psig pneumatic grips. Shown with load cell mounted to the right of column for maximum working table testing area.

Oakland Instrument Corporation

Oakland Instrument Corporation 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.

Specifications

	Model SR-1540	Model SR-1528	Model SR-1522
Mode of operation	Off-line testing/lab use	✓	✓
	Digital Force Measurement	✓	✓
Frame Capacity:	340 Kgf / 3.3 kN / 750 lbf	✓	✓
Maximum Capacity vs. Throat Depth:			
5.1 cm (2 in.)	220 Kgf / 2.2 kN / 500 lbf	✓	✓
8.9 cm (3.5 in.)	110 Kgf / 1.1 kN / 250 lbf	✓	✓
12.7 cm (5 in.)	68 Kgf / 0.67 kN / 150 lbf	✓	✓
Load Cell Mounting Options:	Right hand over work table	✓	✓
	Front mounted	✓	✓
Materials:	All Sheet Materials	✓	✓
Measurement Range:	0 – 0.98 Kgf / 9.8 N / 2.2 lbf	✓	✓
	0 – 23 Kgf / 0.22 kN / 50 lbf	✓	✓
	0 – 45 Kgf / 0.44 kN / 100 lbf	✓	✓
	0 – 68 Kgf / 0.67 kN / 150 lbf	✓	✓
Measurement Accuracy:	± 0.02% Full scale	✓	✓
Measurement Resolution:	Maximum: 4.5 gf / 0.044 N / 0.01 lbf	✓	✓
(Depends on Load Cell Selected)	Minimum: 0.45 gf / 0.0044 N / 0.001 lbf	✓	✓
Sampling Rate:	1000 / sec.	✓	✓
Test Speed Range (3 Options):			
Standard	2.5 – 500 mm (0.1 -20 in)/min	✓	✓
High Speed:			
Test Speed Range:			
Configuration 1	10 – 1015 mm (0.4 – 40 in)/min	✓	✓
Configuration 2	25 – 2030 mm (1 – 80 in) /min	✓	✓
Derated Capacity:			
Configuration 1	110 Kgf / 1.1 kN / 250 lbf	✓	✓
Configuration 2	45 Kgf / 0.44 kN / 100 lbf	✓	✓
Jog / Return Speed Range:	2.5 – 500 mm (1 – 20 in)/min	✓	✓
Speed Accuracy:	± 0.25 mm (0.01 in)/min	✓	✓
Maximum Crosshead Travel:	1170 mm / 46 in.	860 mm / 34 in.	710 mm / 28 in.
Maximum Test Travel:	1015 mm / 40 in.	710 mm / 28 in.	560 mm / 22 in.
Overall Height:	147 cm / 58 in.	117 cm / 46 in.	102 cm / 40 in.
Overall Weight:	41 kg / 90 lb	36 kg / 80 lb	33 kg / 72 lb
USB / Serial Data Communications:	USB (Main Control), RS-232 (Thickness Data Import or Printer Export)		
Power Requirements:	115 VAC, 60 Hz or 230 VAC, 50 Hz. Consult factory for special requirements.		

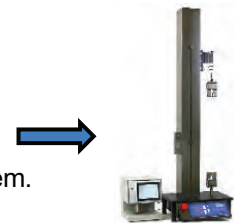
4 Load Cell Capacities Available

3 Frame Sizes Available

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

Options and Accessories

- Fixtures and grips for COF, peel strength, seal strength, shrink force and block / re-block tests. Several grips and fixtures are available in mechanical and pneumatic configurations.
- MT-2500 Quality Control Software & computer systems for computer controlled operation.
- MX-1100e Touch Screen MicroGauge for sample thickness data integration directly to SR Series Force Tester with either Console or Computer controlled configurations.
- Add an Oakland Model DT-1010 Sample Strip Cutter to complete your tensile testing system.



Ordering Information



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