

Model MX-1100 MicroGauge Off-Line Thickness Gauge for Paper, Plastic Film and Sheet

Full-Featured Automatic Caliper Gauges for Film, Sheet and Paper



Model MX-1100 Profiling Caliper Gauge with Isolated C-Frame feature. Gauge equipped with RS-232 Serial Output

In the past, film and paper producers and converters have had the thickness-only machines, or expensive computer-operated machines. Now you can have the best of both worlds in a single instrument. Oakland Instrument offers the MX Series, a simple to use stand-alone or computer operated tester, with optional Quality Control software for automatic calculation and graphical display of thickness profiles, statistics, and other information.

The Oakland Advantage

Conforms to ASTM and TAPPI

Conforms to specifications for ASTM D374, TAPPI T-411, BS 2782-9K, Method 630A and DIN 53370, Standard Test Methods for Thickness Testing of Plastic Film and Paper.

Advanced Technical Features in Each Model

Easy, Error-Free Operation; Three Modes of Operation

Three modes of operation: Operate as a stand-alone, manual system, or Operate in Digital/Software mode using either a Statistical Ticket Printer, or with 3rd Party Statistical Quality Control Software to display profile graphics and calculate data statistics.

Offering Discrete Point Testing and Profiling Models

The MX-1100 offers discrete point testing with the measurement head automatically cycling up and down for point-to-point testing. Other models available for discrete or point-to-point testing for spot-checking material thickness, or for thickness profiling.

Affordable

Best of all, the MX Series is economically priced.

Expandable; Industry-Leading Software

Portable and expandable with optional software, ticket printers, statistical ticket printers, and computer systems. A computer is required for operation in the Digital/Software mode. Windows™ XP and 7 based advanced software for display/hard-copy reporting of statistical and graphical analysis of thickness data including high, low, average, standard deviation, and data count values

Oakland Instrument Corp.

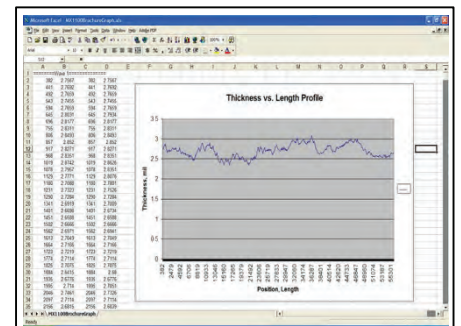
Oakland Instrument Corp. specializes in the design, manufacture and distribution of test, measurement and control systems for the plastics, flexible packaging, and paper industries.

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

Mode of operation:

Model MX-1100

Off-line testing / lab use
Automatic Profiling

Materials:

All sheet materials

Measurement Range:

0 – 1.25 mm (0 – 50 mils), 0 – 2.5 mm (0 – 100 mils),
0 – 5 mm (0 – 200 mils), 0 – 7.5 mm (0 – 300 mils),
other ranges available
Specify microns or mm when ordering metric units

Display (4-½ Digital) and
Serial Output Range Resolution:

0 – 50 mil Measurement Range,	0 – 199.99 mils
0 – 100 mil Measurement Range,	0 – 1.9999 mm
0 – 200 mil Measurement Range,	0 – 1999.9 microns
0 – 300 mil Measurement Range,	0 – 1999.9 mils
	0 – 19.999 mm
	0 – 19999 microns

Stroke (Probe retract height):

Measurement Range plus 1.25 – 2.5 mm (50-100 mils)

Resolution:

0.1 micron (0.01 mil) up to 5 mm (200 mil) range
1 micron (0.1 mil) up to 7.5 mm (300 mil) range

Accuracy:

± 0.5 micron (0.0005 mm, 0.02 mil, 20 microinches)

Parallelism:

± 1.0 micron (0.001 mm, 0.04 mil, 40 microinches) or better

Foot Size (Contact Point):

4.33 mm (0.188 inch) diameter for film
15.9 mm (0.628 inch) diameter for paper
Other sizes available for tissue, other materials

Foot Pressure:

30 – 60 kPa (4 - 8 psi) for film
50 kPa (7.3 psi) for paper
Other settings available for tissue, other materials

Cycle Rate:

20 or 40 per min (film) at 60 Hz
12 or 20 per min (paper)

Lowering Rate:

1 mm / sec (0.040 inch/sec) for paper

Dwell (at zero reading):

3 ±1 seconds for paper

Drive Increments:

N/A

Firmware Data Display:

Thickness Data plus High, Low, Average,
Standard Deviation (1 sigma), Data Count

Serial Data Communications:

RS-232 for statistical printer or computer
Consult factory for special requirements

Power Requirements:

115 VAC, 60 Hz, 230 VAC, 50 Hz
or consult factory for special requirements

Dimensions (W x D x H, Instrument Only)

25 x 25 x 28 cm (10 x 10 x 11 inches)

Dimensions (W x D x H, Shipping)

51 x 41 x 41 cm (20 x 16 x 16 inches)

Weight (Instrument Only)

9 kg (20 lb)

Weight (Shipping)

14 kg (30 lb)

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

Ordering Information



Distributed by:
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