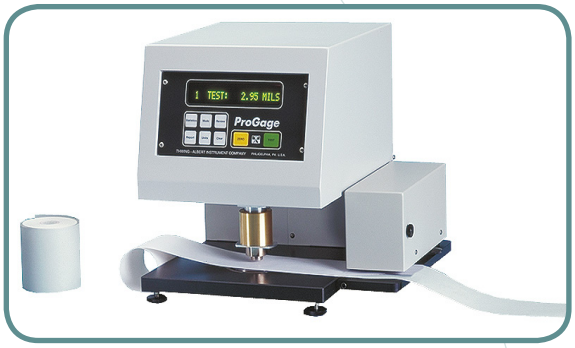
Progage thickness tester

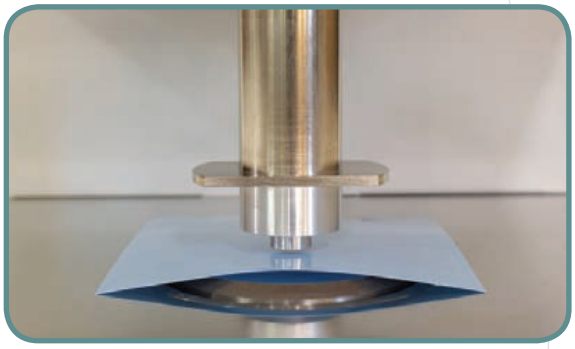
The ProGage utilizes the most advanced technology to quickly and accurately measure the thickness of sheeted materials such as paper, plastic film, tissue and toweling, nonwovens, and textiles. The ProGage features a dual speed pressure foot which enables it to perform up to 20 test cycles per minute (based on configuration) while maintaining a high degree of accuracy. The anvil design ensures excellent parallelism as well as zero stability and calibration.

A wide range of selectable presets for the measuring of speed distance and the pressure foot speed, as well as pressure feet diameters and weights, enables the unit to be configured to meet a specific test standard.

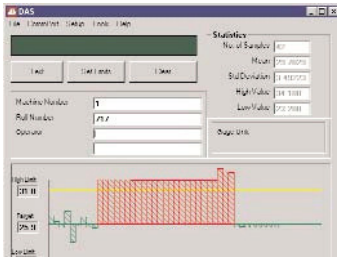
Capable of continuous or single testing with statistical analysis that is automatically performed. Average, high, low and standard deviation are computed, displayed and can be printed.

The ProGage can operate in conjunction with other instruments or be controlled remotely through a computer terminal via a RS-232 port.





Data Acquisition Software



Data Acquisition Software (DAS) is a Windows® based optional software package that provides the ability to collect data and perform additional statistical analysis. DAS enables you to plot results real time against defined limits, generate semi-custom reports and export test datato other spreadsheet packages for further management.

Standard Pressure Feet

- Paper Foot: 0.630" (16mm) Dia, 50.33 kPa
- Paper Foot 0.630" (16mm) Dia, 100 kPa
- Film Foot: 0.250" (6.35mm) Dia, 51.71 kPa
- Tissue Foot: 1.406" (35.7mm) Dia, 2.0 kPa
- Nonwoven Foot: 2.221" (56.4mm) Dia, 0.5 kPa
- Other feet can be made to meet a wide variety of sizes and weights.

Features

- Auto push-button zero control
- Dual speed setting for test cycle increases samples measured per minute
- Rigid mechanical design ensures zero and parallel stability
- Stores up to 99 samples - average, high, low and standard deviation
- Single or continuous cycling mode
- Push-button unit conversion: mils, microns, millimeters, inches
- Adjustable travel height of pressure foot
- PC compatible - RS-232 port

Sample Feeder

An automatic strip feeder is available for cross-reel profiling and roll or strip feeding. It can accommodatesamples up to 7 inches (177.8 mm) wide. The distance the sample is fed between tests can be set from 0.1 to19.9 inches (2.5 to 505 mm). The feeder rate is 3.33 inches/sec (84.6 mm/sec).

Technical specifications

Opening - mils / dwell time - (sec)

Range	Opening in micron	Dwell time
0- 1.000	2.000 (+/-15)	2
0 - 2.500	5.000 (+/- 15)	2
0 - 5.000	10.000 (+/-15)	2
0 - 12.700	12.700 (+/-15)	2

Measuring range

0 - 1.000 Micron

0 - 2.500 Micron

0 - 5.000 Micron

0 - 12.700 Micron

Accuracy & Parallelism - inch (mm)

1000 µ	± 0.00004 (± 0.001)
2500 µ	± 0.00005 (± 0.0012)
5000 µ	± 0.00025 (± 0.0064)
12700 µ	± 0.0005 (± 0.013)

Display resolution

1000 µ	0.00001" -	0.25 µ -	0.001 mm - 0.1 µ
2500 µ	0.00001" -	0.25 µ -	0.001 mm - 0.1 µ
5000 µ	0.00005" -	1.25 µ -	0.005 mm - 0.5 µ
12700 µ	0.0001" -	2.5 µ -	0.01mm - 1 µ

Foot Switch

A foot actuated control enables the user to start a test with one press of the foot switch thereby keeping the hands free to insert test samples.

Performance data

Measurement speed distance

Range from 0.005" (0.012 mm) to 0.500" (12.7 mm)

Dwell time

0.0 - 9.9 seconds

Pressure foot speed

15 presets available between 0.026 - 0.416 in/sec (0.660 - 10.566 mm/sec)

Pressure foot size

0.19 in (4.83 mm) to 2.2 in (56 mm)

Power requirements

110 V, 50/60 Hz - 220/230 V, 50 Hz - 240 V, 50 Hz

Power consumption

Operating maximum 18 W

Stand by maximum 12 W

Physical Specifi cations

Dimensions

254 x 304,8mm x 317,5mm

Throat Depth

120.6mm

Net weight

23,6kg

Gross weight

25;9kg