

The Gustin-Bacon **MEASURE-MATIC**

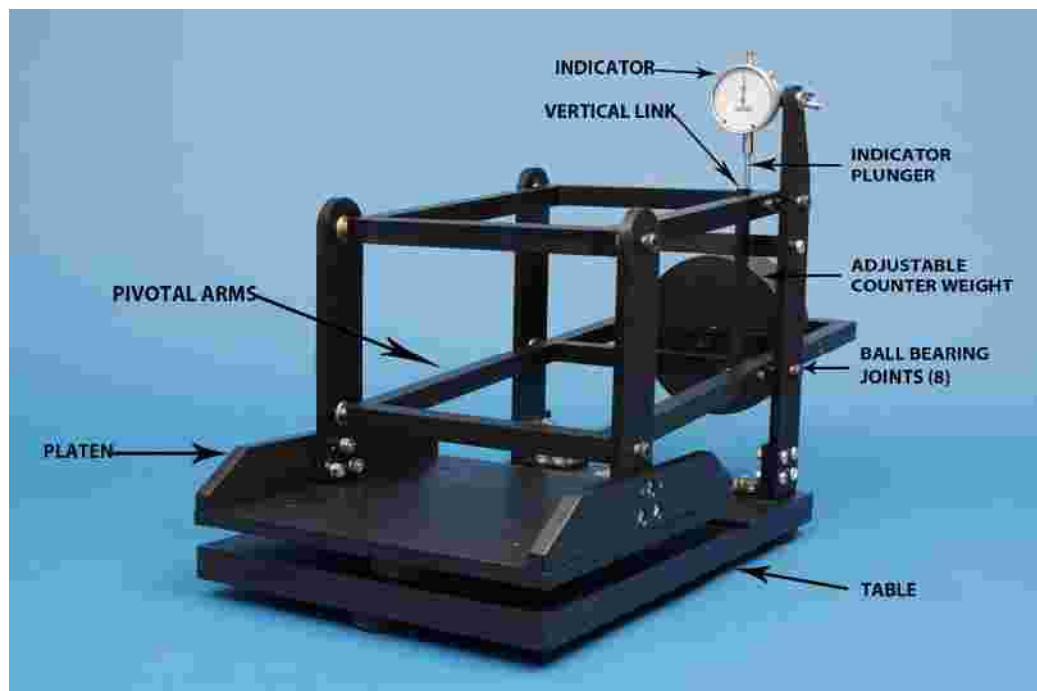
by
CertainTeed Machine Works

Available Models and Options

- ü Standard Measure-Matic with analog dial indicator
- ü Standard Measure-Matic with digital indicator
- ü Non-Standard Measure-Matic with longer uprights (for thickness 3 ½" to 9 ½")
- ü Analog Dial Indicator Kit
- ü Digital Indicator Kit
- ü Firmness Test Adapter

Initial Instrument Set-Up

1. Remove all articles from their packaging and inspect for damage
 - (1) Measure-Matic
 - (1) Counter Weight
 - (1) Analog or Digital Indicator
 - (1) Indicator Mounting Bracket
 - (1) Spacer
 - (1) Bolt
 - (1) Wing Nut
 - (2) Washers
2. Attach the Indicator to the Measure-Matic using the Bracket, Spacer, Bolt, Washers and Wing Nut. The Indicator should be parallel to the upright, with the plunger resting on the vertical link.
3. Install the Counter Weight to the threaded rod in the back of the Measure-Matic by first removing the rear support brace, threading the Counter Weight onto the rod, and replacing the brace. Care should be taken during installation to prevent the Platen from rising quickly and abruptly stopping at the end of its travel.



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General Operation

The Measure-Matic moves freely and effortlessly, with the faces of the Platen and Table parallel at all times. By adjusting the Counter Weight, the Platen can be made to balance perfectly at any desired height above the Table up to five inches.

Appropriate laboratory test methods should be followed to achieve consistent, repetitive and comparative results. A predetermined load, typically two grams per square inch of surface area, is applied to the platen during the measurement process. Due to the linkage ratios of the Measure-Matic, the Indicator movement represents a ten fold movement of the Platen. For example, an Indicator reading of 0.01 inches indicates a Platen travel or material thickness change of 0.10 inches.

To Measure Thickness – Position the Counter Weight on the rear of the Measure-Matic until the Platen remains at rest a known height above the Table. Raise the Platen and carefully place the test specimen on the Table. Add the weight to the Platen and carefully lower the Platen until it comes in contact with the material. Release the Platen, wait approximately ten seconds, and then record the Indicator reading.

To Measure Resilience – Measure the thickness as described above. Place an additional load on the Platen and, after a predetermined period of time, record the new Indicator reading. Remove only the additional load, and after a period of time, record the Indicator reading. Comparison of the original thickness, compressed thickness, and final thickness provides an indication of the material's compression and resilience characteristics.

Typical Test Methods

- ü ASTM D5729-97 (2004) – Std Test Method for Thickness of Nonwoven Fabrics
- ü ASTM D5736-95 (2001) – Std Test Method for Thickness of Highloft Nonwoven Fabrics
- ü Ford Laboratory Test Method BN 023-02 – Thickness Testing For Padding Materials
- ü Ford Laboratory Test Method BN 123-01 – Firmness Test For Padding Materials
- ü INDA WSP 120.2 (09) – Std Test Method for Thickness of Highloft Nonwoven Fabrics
- ü INDA WSP 120.3 (09) – Std Test Method for Measuring Compression and Recovery of Highloft Nonwoven Fabrics



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