

# DIGITAL FRICTION METER

## LH-604 DFM



The LH-604 Lawson Hemphill's Digital Friction Meter is a reliable and economical method for computing yarn coefficient of friction ( $\mu$ ). Windows XP® software has been added which allows the DFM readout to be connected directly to your personal computer or lap top with a complete statistical package. Readout data includes coefficient of friction ( $\mu$ ), COF averages with standard deviation statistics, limits for high and low and one-button transfer of results to Excel or CSV file. Also graph and histogram are provided.

Variations in stitch length relate directly to changes in the coefficients of friction of the yarns being run. High coefficients are now recognized as causing yarn breakage, excessive consumption of yarn and inferior quality. Management can save many dollars and maintain quality standards by reducing stitch length variations by controlling draw tensions.

The LH Digital Friction Meter adds another dimension of versatility to the measurement of yarn friction. In addition to being able to be stand-mounted for quality control functions and laboratory use. It is direct reading, easy to use, accurate and reasonably priced. It has been engineered to be as rugged and versatile as possible without sacrificing precision and sensitivity. With proper care, this instrument should remain accurate for many years.

### STANDARDS

Standards ASTM D-3108      Standard Test Method for Coefficient of Friction, Yarn to Solid Material

### ADVANTAGES

- Direct reading, easy to use
- Small, table-top instrument
- Aiding in better product design
- Maintaining a uniform quality level
- Reasonably priced

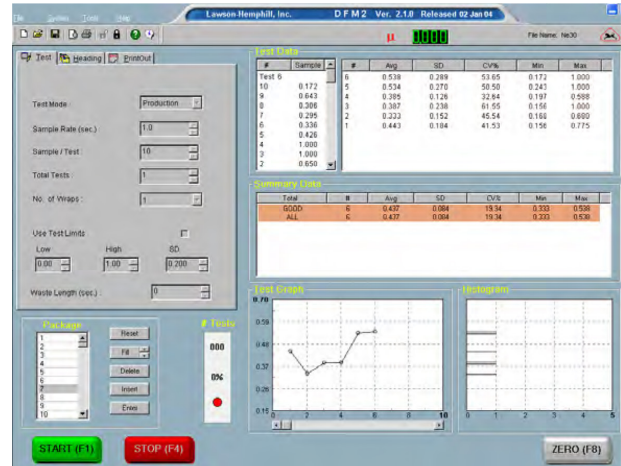
### END USERS

Cotton Mills, knitting operations, staple yarn spinners, texturizers, fiber producers, wax producers, finish suppliers

## SOFTWARE

Simple, operator friendly, yet powerful software is now available at low cost using Windows XP. In this powerful friction test system, the software includes setup limits for high and low coefficient of friction ( $\mu$ ), S.D. (Standard Deviation) and C.V. % (coefficient of variation).

The software automatically stores the data to a preset file for communication with the user's main quality control database system or can transfer the data to an Excel file with one computer command. The software is able to graph the results and produce a histogram.



## FEATURES

- Ability to delete undesirable tests.
- Ability to arrange only rejected packages results.
- Graph and histogram adjustable scale or automatic mode.
- Ability to pre-select length of yarn to run before the test starts, in order to get equilibrium to the new package.
- One-step zero calibration.
- Printout of test results.
- Ability to give alphanumeric identification number to each package tested.
- Work with laptop or desktop.
- USB connection to computer.

## MODELS

**LH-604 Digital Friction Meter (DFM)** Motorized Drive Unit, Cables and Software CD (computer is not supplied)

**LH-604B Digital Friction Meter (DFM) WinXP Computer & Monitor**

Electrical	110V/60Hz or 220V/50Hz
Dimension	406 x 304 x 254mm (16x 12 x 10in)
Weight	6.8kg (15lbs)

\*All specifications are subject to change.

Contact us today for more information on any Lawson-Hemphill product!

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