

# YARN FRICTION METER LH 603 YFM



**Friction Meter and Portable Drive Unit LH-603A**

Friction and friction build up cause yarn breaks as textile yarns come into contact with different surfaces during the manufacturing processes. The interaction between the yarns and the other elements such as guides, needles, loom parts will cause friction.

Among the effects of the friction, we can easily name the increase of tension on the yarn while it is passing over the guides, the breakage of warp yarns, the heating of the needle, all of which cause loss of time and money during production. Therefore, it is always desirable to use yarns with low coefficient of friction values.

Lawson Hemphill Yarn Friction Meter, YFM is a small, handheld, portable instrument that measures the coefficient of friction very quickly and accurately. It provides very quick feedback on the effects of wax, paraffin, sizing material on the overall yarn friction values.

**Friction can be your dollars and quality!!**  
Variations in stitch length relate directly to changes in the coefficient of friction of the yarns being run. High coefficient of friction of values 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.

**Friction meter helps solve many problems!**  
The LH Yarn 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 can be hand held to measure yarn under actual operating conditions. 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.



**Hand Held Direct Reading LH-603**

## YARN FRICTION METER

### OPERATION

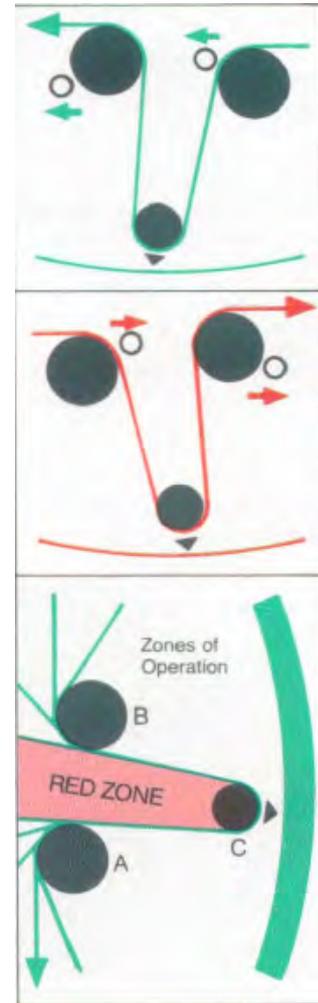
The friction meter works on a geometric principle based on the unique positioning of the idler pulleys, the friction element, the pivot for the sensing arm, and the precision sizing of the rolls and post. The instrument will consistently produce accurate, absolute coefficients of friction. Calibration adjustments (a simple balancing) are only required when a different friction post is to be used.

### END USERS

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

### BENEFITS

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



### Dimensions

LH 603	11"L x 5"W x 2"H (279 mm x 127 mm x 50.8 mm)
LH 603A w/ Test Stand	16"L x 12"W x 10"H (406 mm x 304 mm x 254 mm)
Electrical	115/220 VAC-50/60 Hz

### Connections

Weight 1.5 lbs (0.68 kg)
Weight 15 lbs (6.8 kg)

### Ordering Information

LH 603	Hand-held Friction Meter
LH 603A	Portable Drive Unit

Contact us today for more information on the Yarn Friction Meter or any Lawson Hemphill product,  
Please call us at 1-508-679-5364, or e-mail: [information@lawsonhemphill.com](mailto:information@lawsonhemphill.com)



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