

ELECTRONIC INSPECTION BOARD for SPUN YARNS AND HAIRINESS

LH-481 EIB-S



The spun yarn uniformity has always been an important quality control parameter as it affects the commercial value of the yarn. Defects such as thick places, thin places, neps, hairiness and yarn appearance contribute to the overall yarn uniformity and altogether they define the character of the end product.

The Electronic Inspection Board for Spun Yarns and Hairiness, EIB-S is a test instrument, which offers very quick, precise yarn analysis based on the yarn diameter measurements. A CCD camera is used to measure the diameter values with 3.25micron precision when the yarn is moving at test speeds up to 300m/min.

The unique camera design provides the ability to test natural and synthetic yarns as well as high performance yarns including carbon, glass or hybrid yarns that cannot be tested with capacitive based systems.

Yarn Analysis Software program, YAS measures the yarn diameter and classifies the yarn defects such as thick places, thin places, neps and slubs by their diameter and length. The program provides the best simulated yarn appearance board in the market. The flexibility included in YAS software allows the operator to change board length and yarn fault descriptions without retesting the yarn. This allows the user to evaluate the same yarn at different loom widths to see if any periodicity develops. Diameter data can also be exported to a fabric simulation software for further analysis.

FEATURES

- Robust, laboratory size test instrument for yarn uniformity analysis based on the dynamic yarn diameter measurement
- Ability to measure every 0.5mm of the yarn with 3.25micron precision
- Optical measurement enables testing high performance yarns such as carbon, glass and hybrid yarns, which cannot be tested with capacitive based systems
- Variable yarn speed from 20-300m/min
- Maintains constant Input Tension up to 60g on the running yarn
- Windows based, easy to use Yarn Analysis Software (YAS) features:
 - ◇ Diameter evenness measurement with standard deviation and CV%
 - ◇ Thick places, thin places, neps and slub analysis by diameter and length
 - ◇ Ability to change the yarn defect matrix without retesting the yarn
 - ◇ Realistic Yarn Appearance Board simulation
 - ◇ Ability to change the board type and width without retesting the yarn to see the distribution of the slubs at different loom widths
 - ◇ Ability to grade the yarns for appearance automatically
 - ◇ Yarn hairiness measurement
 - ◇ Ability to send the diameter information to fabric simulation software

MODEL

LH-481 EIB-S Electronic Inspection Board for Spun Yarns And Hairiness

Electrical	110/220 VAC 50/60Hz (consult LH for other power supply)
Air	80 psi-clean air required
Dimensions	117 x 71 x 155cm (46 x 28 x 61 inches)
Weight	205kg (450 lbs)

**All specifications are subject to change.*

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

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