

# TEXTURED YARN TESTER- ELECTRONIC DRIVE

## LH-131 TYT-E



Texturing is an important step that adds natural fiber feel to synthetic yarns by introducing bulk and crimp. Traditionally, these properties were measured using the Skein Method, which by design can only measure skeins of yarn at a time.

The introduction of the yarns with different crimp levels into the same fabric will cause light to reflect differently, creating a stripy appearance due to variations in bulk. When measuring the Crimp and Shrinkage, TYT can apply as low as 1mg/denier tension on the yarn to measure the slightest change in crimp and shrinkage.

Lawson Hemphill developed the Textured Yarn Tester, TYT to overcome the disadvantages of the Skein method by reducing test time (1000+ pkgs /8hrs with a package changer) and required no special expertise to run the test. The machine conforms to ASTM D 6774, Standard test method for Crimp and Shrinkage properties for Textured Yarns using a Dynamic Textured Yarn Tester and Chinese Standard GB/T6508-2001.

TYT provides a dynamic platform that allows measuring every section of the yarn to simultaneously determine five yarn properties, including Total Recovery (total contraction), Fiber Shrinkage, fiber Crimp, Entanglement.

In addition to providing direct feedback on yarn quality during production, TYT can be placed directly in the yarn packaging area to qualify outgoing packages before final shipment.

User friendly, TYT software program features complete statistical report with accept/reject limits and built-in ability to connect to a network to control the production parameters remotely.

## FEATURES

- Precision textured yarn tester for simultaneous analysis of Total Recovery (total contraction), Fiber Shrinkage, fiber Crimp, Entanglement.
- Conforms to ASTM D 6774, Standard test method for Crimp and Shrinkage properties for Textured Yarns using a Dynamic Textured Yarn Tester
- Complies to Chinese Standard GB/T6508-2001
- Can be equipped with a package changer to become a fully automated textured yarn tester with 1000+ packages/8 hour test capability
- Dynamic test platform to measure every section of the yarn, allowing the capability to detect short term yarn variations
- Ability to test apparel and carpet yarns, including nylon, polyester and polypropylene
- Ability to test set (low bulk) and stretch (high bulk) yarns up to 75% Total Recovery.
- Maintains tension on the yarn as low as 1mg/denier to measure the slightest change in fiber crimp and shrinkage
- Variable test speed from 20m/min to 200m/min
- Two types of non-contact heaters available: Standard Heater (100 to 205°C) or High temperature heater (180 to 250°C)
- User friendly software program features complete statistical report with accept/reject limits
- Built-in export function to connect to the factory network to control production parameters remotely.

## MODELS

### LH 131 Textured Yarn Tester- Electronic Drive

Yarn Count	15-800 denier, 800-3000 denier (Contact Lawson Hemphill Inc for higher or lower denier)
Sample	Up to 999 samplings/test
Sample Length	1-99 meters in sampleing mode
Speed	20-200 m/min
Power	115V or 230VAC, 2.0KW
Air	100psi instrument air required
Dimensions	244 x 114 x 149cm (96 x 45 x 58 inches)
Weight	437kg (970 lbs)

## OPTIONS

- Package Changer for automatic operation
- Carpet or apparel yarn option with low and high temperature heaters
- Entanglement option to measure the entanglements and the skips in the yarn

*\*All specifications are subject to change.*

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