

# TEXTURED YARN TESTER- ELECTRONIC DRIVE

## LH-131 TYT-E



Texturizing 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-E 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 with Electronic Servo Drive System, TYT-E, to overcome the disadvantages of the Skein method by reducing test time (1000+ pkgs/8hrs with a Package Changer). TYT-E also has an exclusive ASTM Standard D6774, "Standard Test Method for Crimp and Shrinkage Properties for Textured Yarns using a Dynamic Textured Yarn Tester" and it conforms to the Chinese Standard GB/T6508-2001.

TYT-E provides a dynamic platform that allows measuring every section of the yarn to simultaneously determine four yarn properties, including Total Recovery (Total Contraction), Fiber Shrinkage, Fiber Crimp and Entanglement.

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

Windows based TYT-E software program features user-friendly touchscreen interface and it provides 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 and Entanglement (optional) in one single test
- Exclusive ASTM Standard D6774, Standard Test Method for Crimp and Shrinkage Properties for Textured Yarns using a Dynamic Textured Yarn Tester
- Complies Chinese Standard GB/T6508-2001
- Fully Automated Textured Yarn Tester with 1000+ packages/8 hour test capability with a Package Changer
- 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
- Non-contact heaters available as Standard Heater (100°C-205°C) or High Temperature Heater (180°C-250°C)
- Windows based TYT-E software program features user-friendly touchscreen interface and provides 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 for higher or lower denier ranges)
Sample	up to 999 samples/test
Sample Length	1-99 meters in sampling mode
Speed	20-200 m/min
Power	115Vac or 230Vac, 2kW
Air	100psi instrument air required
Dimensions	244 x 114 x 149cm (96 x 45 x 58 inches)
Weight	437kg (970 lbs)

*\*All specifications are subject to change.*

## OPTIONS

- Package Changer for Automatic Operation
- Carpet Yarn or Apparel Yarn Option with low and high temperature heaters
- Entanglement Option to measure the entanglements and the skips in the yarn

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

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