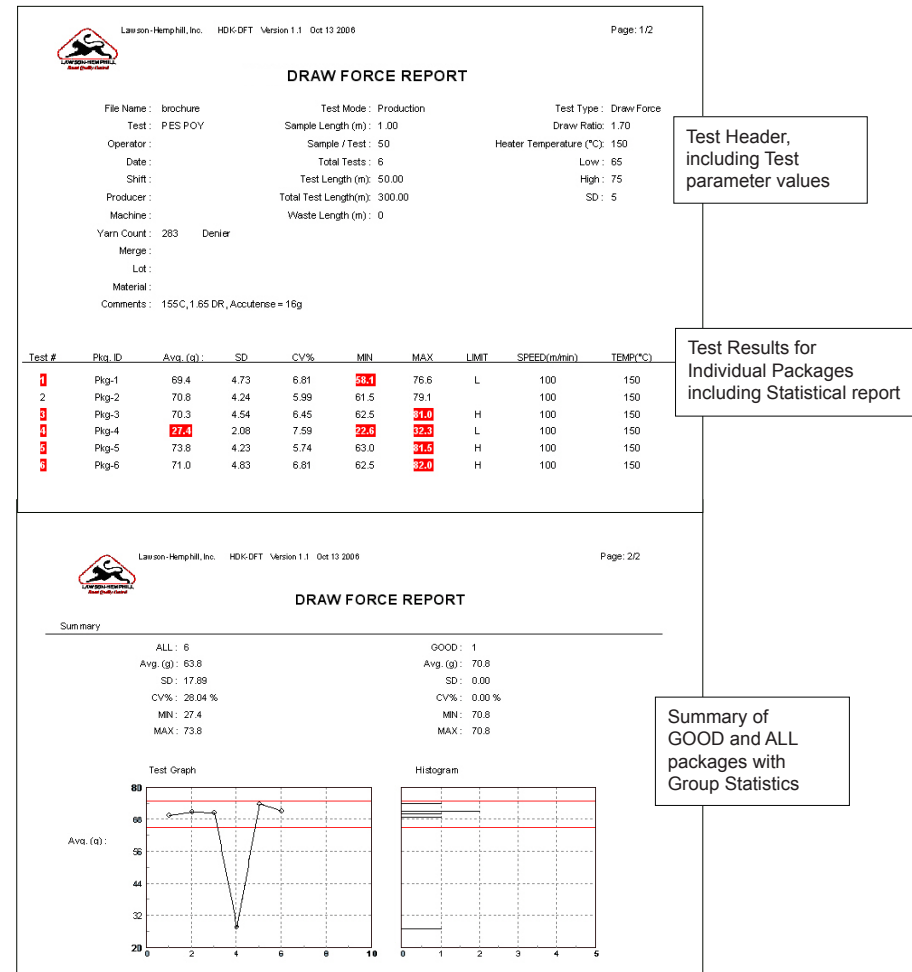


DFT PRODUCTION TEST REPORT



Ordering Information		LH-123B Draw Force Tester	
Instrument Size	1054 x 546 x 1346 mm	Connections	115 VAC- 50-60 Hz (consult LH for other power supply)
Dimensions W x L x H	(41.5 x 21.5 x 53 in)		
Weight	181 kg (400 lbs)	Air	60 psi-clean air required

Please visit our website at
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- Real-time Draw Force Measurement for partially oriented yarn under constant extension
- Effectively used to test standard and colored POY, MOY and LOY
- Robust design for industrial environment conditions
- Vapor Heater and Pin Heater are available for both Polyester and Nylon yarns
- Can be equipped with a yarn package changer for non-stop draw force measurement
- Custom made Draw Rolls for specific Draw Ratio levels
- Statistical Analysis for Draw Force results

- Draw Force statistics for Average, Min and Max, Standard Deviation, CV%
- Continuous monitoring and detection of changes in yarn tension with real time tension graph display
- Customer defined accept/reject limits to sort out the yarn packages
- Automatic saving of test settings, results and yarn tension graphs
- Data archiving of multiple or single package test data
- File sharing for integration with mill database
- Data Archiving of multiple or single package test data

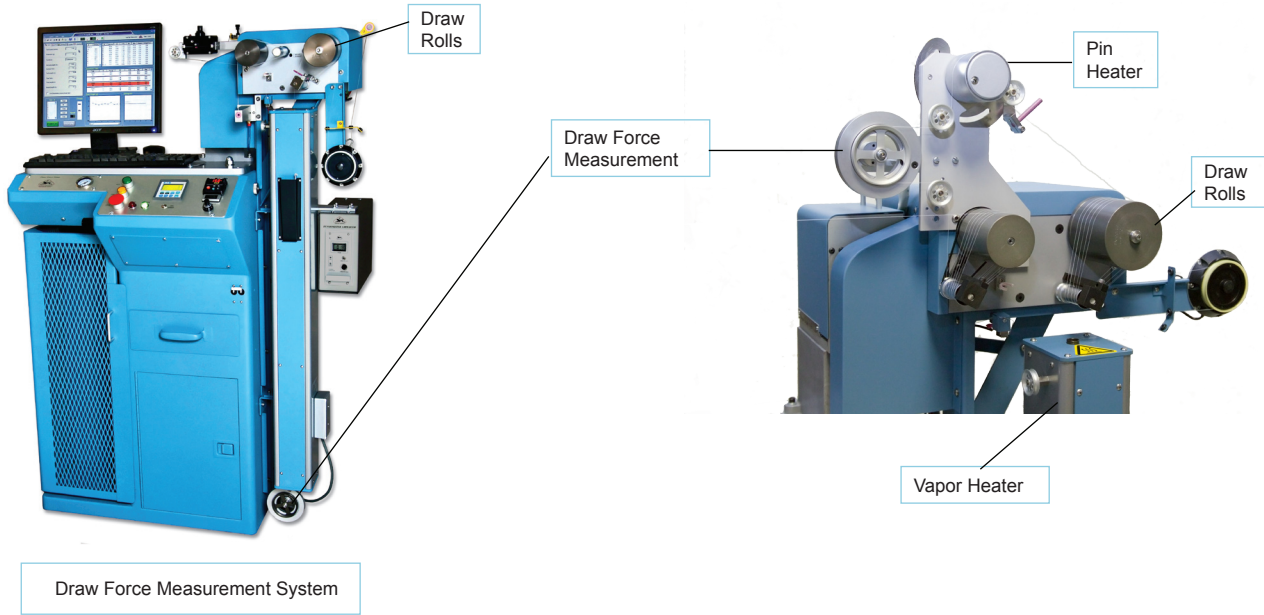
Windows based and user friendly DFT software program provides real-time tension data on the yarn as it is being drawn and set. Accept/Reject limits can be defined by the operator. The test results and the tension graphs are saved in common file formats. DFT software includes the ability to run draw force tests under increasing temperature levels to determine optimum settings and critical temperatures for the yarn under test.

DFT DRAW FORCE TESTER LH-123B

FEATURES

- Draw Force Measurement system to check the uniformity and the consistency of the POY production quickly and accurately
- Complies with ASTM D 5344, Standard Method for Extension Force of POY
- Continuous monitoring and detection of changes in yarn tension with real-time tension graph display
- Ability to test both standard and colored POY, MOY and LOY yarns
- Non-contact Vapor Heater (max 205°C) and contact Pin Heater (max 250°C) are available to test polyester and nylon yarns on the same machine
- Precision Draw Ratio rolls from 1:1 to 1:3, with increments of 0.05 are available
- Draw Force statistics for Average, Min and Max, Standard Deviation, CV%
- Customer defined accept/reject limits to sort out the packages
- Automatic saving of test settings, results and tension graphs
- Data Archiving of multiple or single package test data
- File sharing for integration with mill database

MAIN COMPONENTS



DFT BENEFITS

- Stand-alone Draw Force Measurement system to continuously monitor the yarn tension as it passes through heater under constant extension
- Extensive savings in labor, cost and time when optimizing the texturizing process
- Ideal for checking the uniformity when new batch of chips are used
- Identifies critical temperatures for your product using temperature curve analysis

PERFORMANCE SPECIFICATIONS

- **Pretension Range:** min-5grams, max-60grams
- **Linear Input Speed:** 160 m/min. (maximum)
- **Heater Temperature:** 110°C-205°C (vapor heater) 50°C-250°C (pin heater, optional)
- **Draw Ratio Rolls:** from 1:1 to 1:3 in increments of 0.05 (Contact Lawson-Hemphill for other draw ratios.)
- **Yarn Types:** Standard or colored POY, MOY or LOY yarns
- **Optional:** Pin Heater, Automatic Package Changer

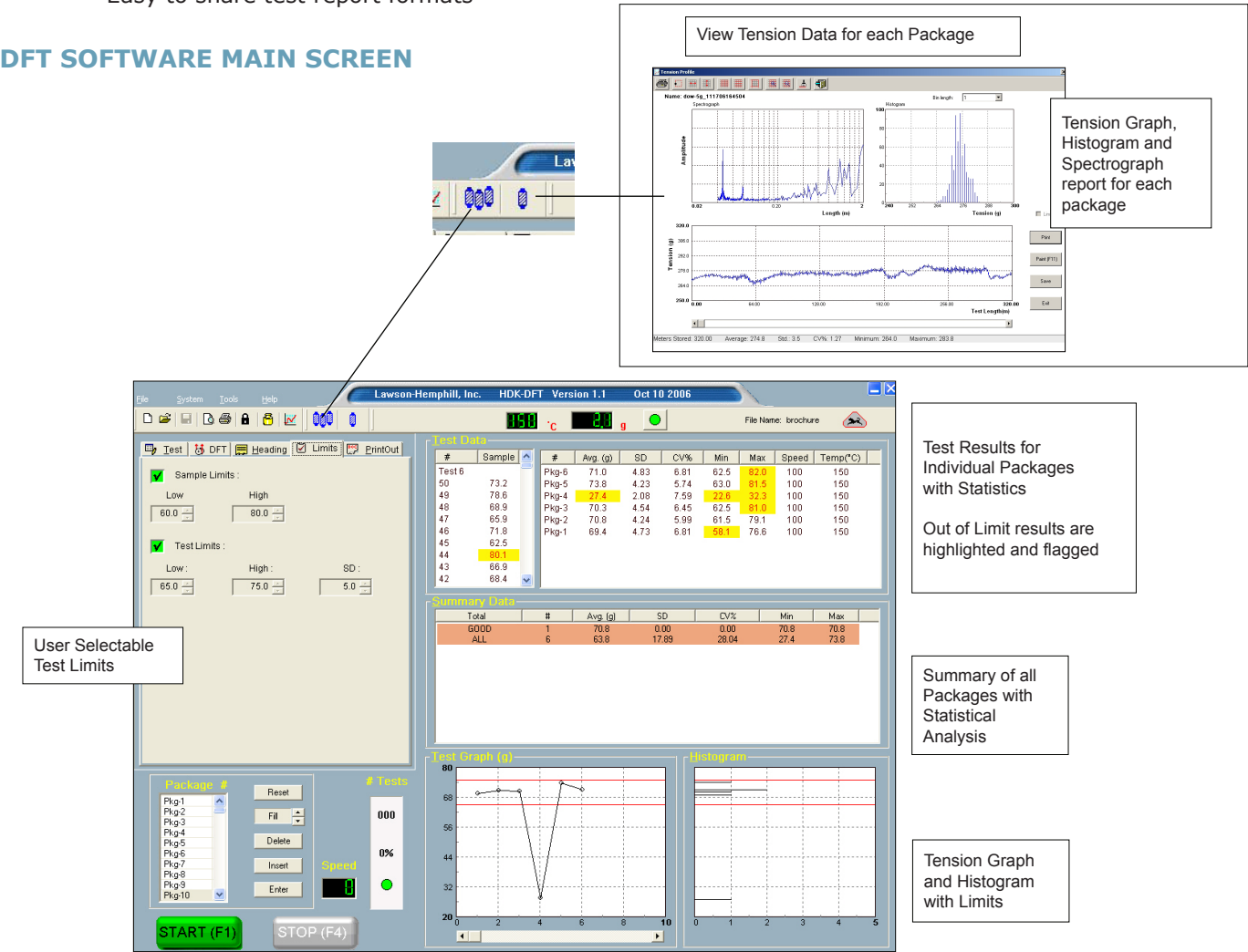
DFT DRAW FORCE TESTER LH-123B

DFT SOFTWARE

Windows based, easy to use Draw Force software features:

- Draw Force statistics with average, min and max tension, SD and CV%
- Continuous monitoring and detection of changes in yarn tension with real-time tension graph display
- Auto or operator defined accept/reject limits to sort out the packages
- Ability to view the tension graphs and test data for multiple or single packages
- Automatic saving of the test settings, results and tension graphs
- Easy to share test report formats

DFT SOFTWARE MAIN SCREEN



DFT TEMPERATURE CURVE MODE

Temperature Curve Software to allow for RAMP or STEP Temperature testing.

See the Changes in tension vs. Temperature!

Identify Critical Temperatures for your product.

