

# DRAW FORCE TESTER - HT

LH-160 DFT-HT



## HIGH TEMPERATURE & HIGH SPEED DFT

### INSTRUMENT FEATURES

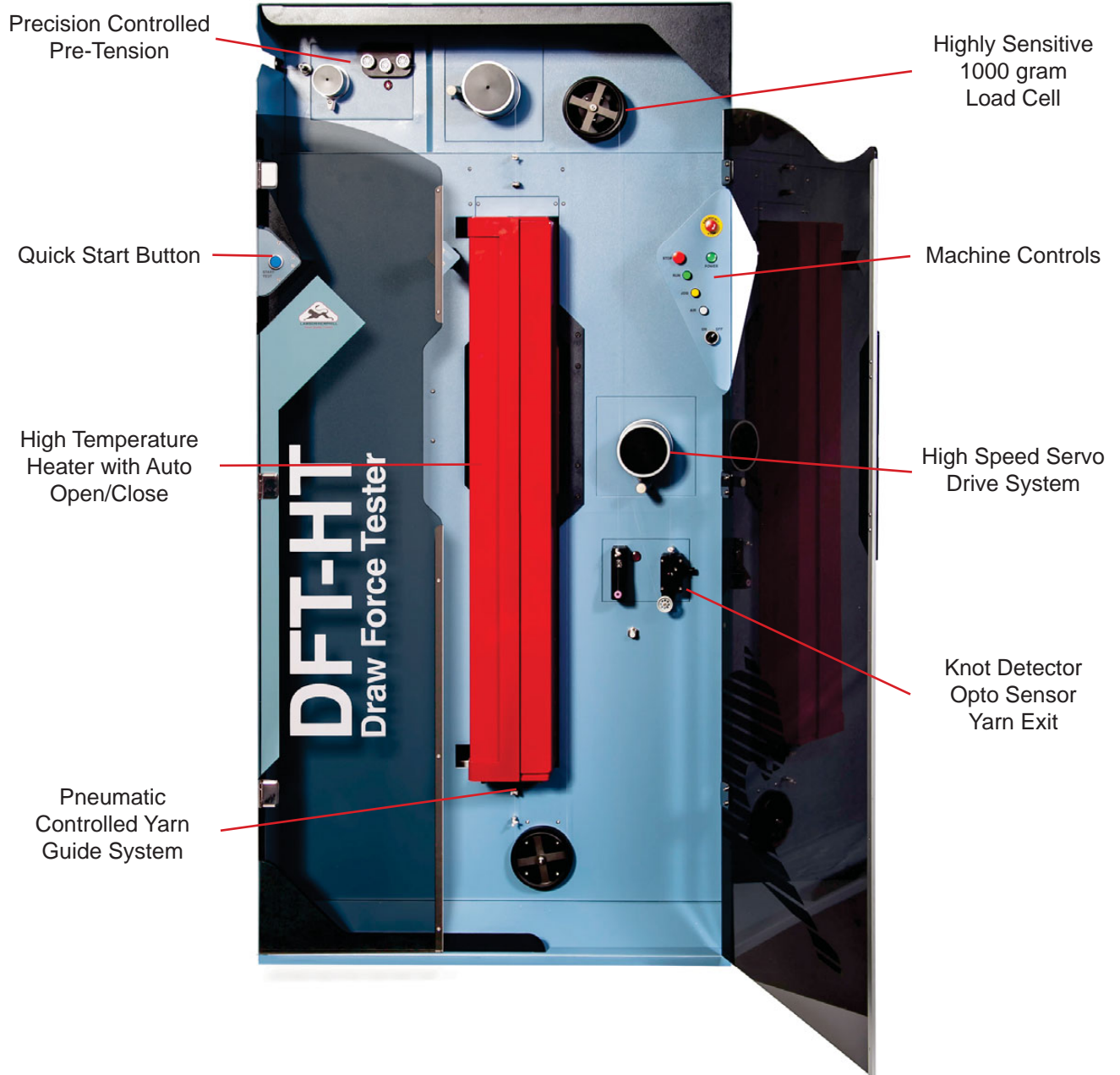
- High Speed and High Temperature precision Draw Force Tester with Electronic Drive System
- Testing Speeds between 20-1000 meters/minute with electronic servo motors
- Heater Temperature between 25-500°C
- Real-time Draw Force Measurement for partially oriented yarn under constant extension
- Software controlled, Electronic Pre-tension applied for the entire duration of the yarn testing
- Automatic Yarn Guides to move the yarn in and out of the heater after test
- Continuous operation with Automatic or Manual Splice Yarn Package Changers for maximum test efficiency
- Ability to start the test from both sides of the machine
- Closed door application for maximum safety
- Effectively used to test POY, MOY and LOY
- DFT-HT complies with ASTM D5344

DFT-HT is the newest addition to Lawson Hemphill line of Draw Force Testers. The instrument features 1000 meters/minute test speed and 500°C hot air temperature on the running yarn. It complies with ASTM D 5344.

The system is Software Controlled to set the required Draw Ratio and Pre-Tension while maintaining constant air test temperature throughout the test. It is equipped with yarn guides that move the yarn in-out of the heater when testing is completed. For maximum safety, DFT-HT doors remain closed during the test.

The operator can start the test from either side of machine by pressing Quick Start Blue button or a single keyboard click. When equipped with Automatic or Manual Splice Package Changers, the DFT-HT operates continuously.

## ULTIMATE DRAW FORCE TESTER for your high speed testing needs



### View Tension Data for each Package

Tension Graph,  
Histogram and  
Spectrograph for  
each package

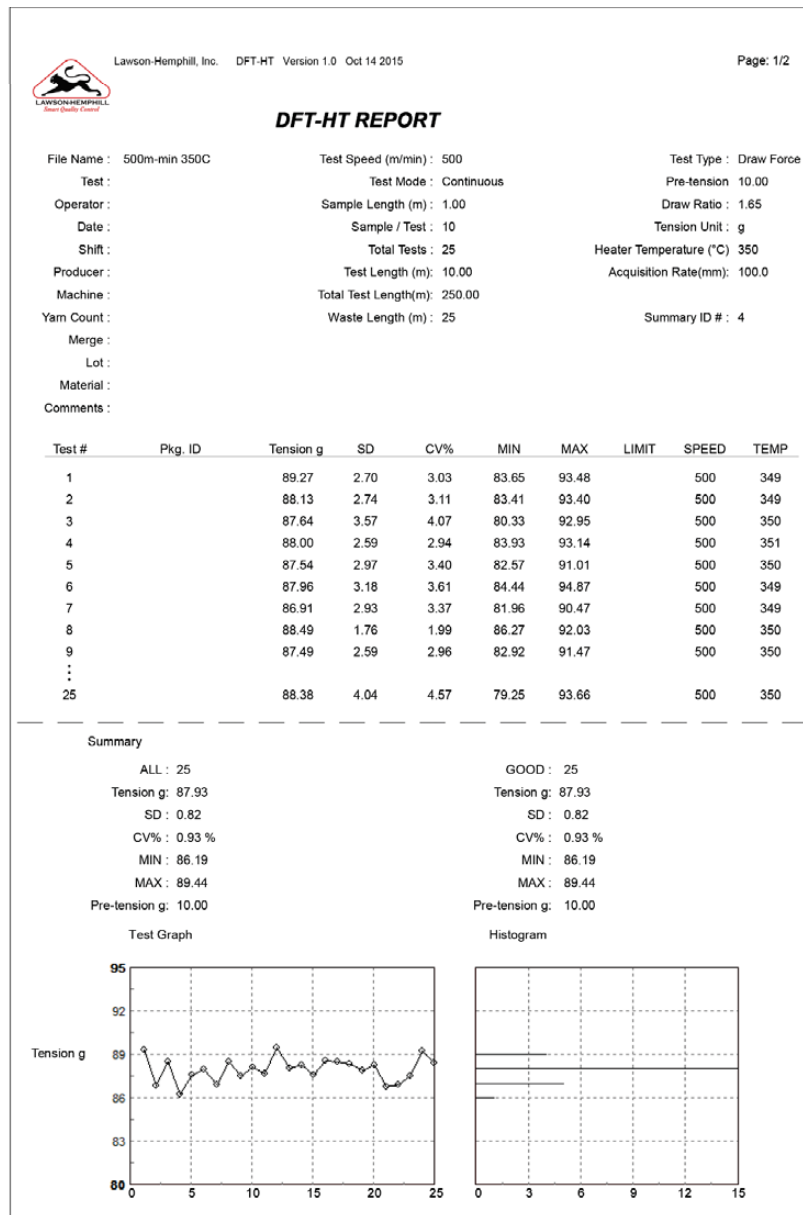
## Test Results for Individual Packages with Statistics

Out of Limit results are highlighted and flagged

## Summary of all packages with Statistical Analysis

## Tension Graph and Histogram with Limits

# DRAW FORCE TESTER HIGH TEMPERATURE & HIGH SPEED



Test Header,  
including test  
parameter value

Test Result,  
for individual packages  
including statistical report

Summary of GOOD and  
ALL packages with group  
statistics

## DFT-HT PRODUCTION TEST REPORT

### TECHNICAL SPECIFICATIONS

Machine Speed	10-1000m/min
Heater Temperature	25-500°C
Heater Length	1000mm
Load Cell	1000 grams
Pretension Range	5-50 grams
Yarn Types	POY, MOY or LOY yarns

\*All specifications are subject to change.

### MODEL

LH-160	
Draw Force Tester High Temperature and High Speed	
Electrical	110-220 Vac 50-60 Hz, 3.3Kw
Air	60 psi, clean air required
Dimensions	940 x 673 x 1905mm (37 x 26.5 x 75 inches)
Weight	295kg (650 lbs)

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

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