

Premier HFT™ 9000

- Proven high volume testing option

HFT 9000 is the semi-automatic high volume instrument for testing cotton length, strength, micronaire and colour.



Premier HFT 9000 uses the latest generation optics to estimate the fibre length and its distribution. The measurement is made by scanning a tapered beard prepared by a Fibro Sampler Comb. The results are expressed in terms of Span Length or Mean Length. The tapered beard is also used to measure the fibre strength and elongation. The maximum tensile force required to break the fibre tuft held between two fibre clamps is measured. The path traversed by the moving clamp gives the fibre elongation. Premier HFT 9000 uses the airflow principle to measure the micronaire value. An estimate of maturity is also provided. The colour module can also be added optionally.

CALIBRATION

International standard USDA calibration cottons are used to calibrate Premier HFT 9000 length, strength and micronaire modules. Standard colour tiles are used to calibrate Premier HFT 9000 Colour module. Provision is also available to calibrate with other cottons.

TECHNICAL SPECIFICATIONS

PREMIER ART™

Basic Specifications

Basic Installation	:	Modules for testing length, strength, mic, colour and trash in the following configurations: a. 1 LS + M+C; b. 1 LS + M +C/T; c. 2 LS + M + C/T
Testing Speed	:	140 samples per hour (with 2 LS module); One sample refers to 2LS, 2C/T and 1Mic test
Options	:	Trash Module; BALE SMART™ Software for Bale Management; Bar Code Reader
Application Range	:	Cotton Fibre samples from bales, slivers and rovings; Sample size for mic testing : 7 to 11 gms
Measuring principle	:	Length & Length Uniformity - Optical; Bundle Strength & Elongation - Constant Rate of Elongation; Micronaire - Airflow; Colour and Trash - Optical

Outputs of the Product

Numerical Results	:	Length Characteristics 2.5% Span Length, 50% Span Length, Mean Length, Upper Half Mean Length (all in inches and mm); Uniformity Ratio, Uniformity Index; Short Fibre Index; Amount Strength Characteristics Bundle Strength (in g/tex), Elongation (in %) Fineness Characteristic Micronaire Value, Maturity Colour Characteristics % Reflectance (Rd), Degree of yellowness (+ b), Colour grade Trash Characteristics No. of Trash particles, % Trash area, Leaf Grade
Graphical Results	:	Fibrogram, Force elongation curve
Reports	:	All measured characteristics in numerical and graphical format
Calibration	:	Instrument calibrated using internationally accepted USDA Cottons. At field calibration possible with standard metal flag and any user defined cottons with known values.
Front End Software and Documentation	:	English

Installation Data

Electrical Connections	:	110 V / 220 V AC , 60 / 50 Hz
Power Consumption	:	1.2 KW
Compressed Air Consumption	:	80 - 100 litres per minute at 6 – 7 bar
Ambient Conditions	:	Relative Humidity 65% ± 2%; Temperature 27 ± 2°C for tropical zones (20 ± 2°C for temperate zones)

PREMIER ART - NEP™

Basic Specifications

Basic Installation	:	Tester, PC, Printer, Balance
Testing time	:	Max. 3 min per sample
Sample size	:	5 gms for raw cotton, 10 gms for sliver
Application Range	:	Cotton Fibre samples from bales, slivers and rovings
Measuring principle	:	Optical - laser

Outputs of the Product

Numerical Results	:	Nep Count, Neps per gram, Statistical Block, (Mean, Min., Max., SD, CV%)
Reports	:	All measured characteristics
Front End Software and Documentation	:	English

Installation Data

Electrical Connections	:	110 V / 220 V AC , 60 / 50 Hz
Power Consumption	:	1.2 KW
Compressed Air Consumption	:	80 - 100 litres per minute at 6 – 7 bar
Ambient Conditions	:	Relative Humidity 65% ± 2%, Temperature 27 ± 2°C for tropical zones (20 ± 2°C for temperate zones)

PREMIER RAPIDCON™

Basic Specifications

Basic Installation	:	Conditioning Equipment (with 2 chambers), Control Box Unit, Inverter, Sample Trays (4 Nos.)
Capacity of each sample tray	:	10 samples of 20 to 25 grams each
Conditioning Time	:	30 minutes (Samples would reach a moisture content of 6.75 to 8.25% within the conditioning time)
Application Range	:	Cotton Fibre samples from bales, slivers and rovings
Numerical Results	:	Relative Humidity and Temperature of circulated air
Display	:	2*20 LCD panel Output with 4 Keys Display of RH, Temperature, input parameters and Service Information
Language for display and Documentation	:	English
Electrical connections	:	440 V, 50 Hz Three Phase Supply (for main motor) and 230 V, 50 Hz Single Phase Supply (for controllers, solenoid and lamps)
Power Consumption	:	5 KVA (3 Phase) and 75 VA (1 Phase)
Compressed Air Requirement	:	4 Litres / Sec. at 8 bar
Water supply Requirement	:	Soft water only at 0.4 to 1 bar; Consumption 0.1 litre per minute