HFT[™] **Technical Data***

Basic installation

- · Modules for testing
- Length, Strength and Micronaire
- Colour Module

Additional Options

- · BaleSMART: Software for Bale Management
- · G-trash: % by weight

Application Range

· Cotton fibre samples

Measuring Principle

- · Length and length uniformity : Optical
- Bundle strength and elongation : CRE Principle
- · Micronaire : Airflow
- · Colour : Optical

Output Parameters

Numerical Results:

Length properties

• UHML, ML and UI (or) 2.5%, 50% span length and UR

Strength properties

- Bundle strength (g/tex)
- Elongation (%)

Fineness properties

• Micronaire value in micrograms per inch

Colour properties

· % Reflectance (Rd), Degree of Yellowness (+b) and Colour grade

Estimation

· Short Fibre Index (SFI), Maturity Ratio, RiSi and RoSi

Graphical Results:

· Fibrogram and Force Elongation curve

Calibration

- · Length, Strength, Micronaire : Instrument calibrated using internationally accepted USDA Cottons
- · Colour : Tiles

Ambient Condition

- Relative Humidity : $65 \pm 2\%$
- · Temperature : $21 \pm 1^{\circ}C$ $(27 \pm 1^{\circ}C \text{ for Tropical Conditions})$

Power consumption

· 1.2 kVA

Compressed air consumption

- \cdot 24m³/hr at 6-7 bar
- * Subject to change without Prior notice

HFT[™]

Semi Automatic **High Volume Cotton Tester**



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HFT^M Cost Effective High Volume Cotton Tester

PREMIER HFT is a semi-automatic High Volume Cotton Tester designed and developed for testing all the important fibre properties

PREMIER HFT Configuration:

- Length and Length Uniformity
- Bundle Strength
- Elongation
- Micronaire
- Colour Module

Additional Options:

- BaleSMART
- G-trash: % by weight



Helps to measure accurate Length and its associated parameters

PREMIER HFT is supplied with internationally accepted USDA calibration cotton and tiles for ensuring consistency in the test results

BaleSMART

A user friendly application software for Bale Management simplifies the bale lay-down procedure to ensure consistent quality. Plays an important role in the mixing cost

Proven High Volume Cotton Tester

PREMIER HFT, the proven high volume Cotton tester uses USDA Calibration Cotton to assure international standards of precision and accuracy. Length information is reported in Mean length mode popularly practiced across the industry from Ginners, Traders to Spinners and also in Span length mode covering short, medium, long and ELS varieties. The independent module testing of Length, Strength, Micronaire, Colour enables flexibility in choosing the right combination of report for extensive use on a daily basis

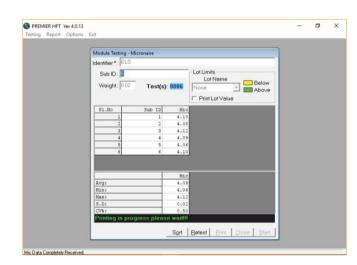
System Testing

- The System testing report provides comprehensive information on Length, Length uniformity, Strength, Elongation, Micronaire and Colour
- Additional information on Maturity, Short fibre and Spinning Index (RiSi and RoSi) helps to evaluate a specific variety during purchase

ystem Te	sting														
Identifier *				Cott	Cotton Type Operator					Test Configuration					
ELS											 Len: 0 of 1 Mic: 0 of 1 Clr: 0 of 1 			1	
Sub ID: 5 MIC				4.10	1.10 0.01 Start with Color!										
General				t Limits -		-				- Cu	rent Res	ulta			_
			Name	Vame								Mic: 4.10	Rd:	69.7	
Length Unit : mm No			one	ne 👻 🔚 Below				ML: 30.00 S			Str: 43.8	+b:	12.6		
			Print Lol	Tint Lot Value					1%: 86.3		Elg: 6.7	C.G.	23.4		
2	1 2 3	34.71 34.73 34.64	29.63 29.88 29.84	85.4 86.0 86.1	4.10 4.10 4.12	44.1 45.0 43.4	6.9 6.9	1186 1461	69.8 69.7 69.7	12.6	23-4 23-4 23-4	0.87	5.6 5.7 5.8		
4	4	34.78	30.16 30.00	86.7	4.08	44.5	6.8		69.7 69.7		23-4 23-4		5.9		
	Avg: Min: Max:	UHML 34.72 34.64 34.78	ML 29.90 29.63 30.16	U.I 86.1 85.4 86.7	Mic 4.10 4.08 4.12	Str 44.2 43.4 45.0	Elg 6.8 6.7 6.9	908	Rd 69.7 69.8	12.6 12.6	C.G 23-4	MR 0.86	SFI 5.0		
	Max: SD:	0.05	0.20	0.5	0.01	45.0	0.1	272		0.0					
		0.00	0.20	0.6	0.3	1.4	1.3	20.6	0.1						

Module Testing: Length & Strength

- Accurate and reliable results on Length and Strength helps to decide on Raw Material purchase
- Quick information helps to allot bales to a Mix based on Length and Strength



Module Testing: Colour

 Accurate information on Reflectance (Rd) and Yellowness (+b) helps the user to optimise Mix and Bale Lay-down for a given lot

Mic and C	olor Testing						
Identifie	ELS					Test Config	
	-					Tests N	Aic:0 of 1 Clr: 0 of
Cotton T	ype		Operator			Color Grade	Upland
Sub ID:	1	Weight	Start v	vith Color	1		
- Lot Limits		100	Current Results				
Lot Name		Below	Mic: 4.06	Rd(%):	0.03	+b: 12.9	C.G: 23-3
None	÷	Above	MIC. 14.00	Ru(//	103.5	TD. Ite.s	C.O. 120-0
F Print L	ot Value						
S1.No.	SubID	Mic	Rd	+b	C.G		
1	1	4.12	70.0	12.9	23-3	1	
2	1	4.08	70.0	12.9	23-3		
3	1	4.06	70.0	12.9	23-3		
4	1	4.07	70.0	12.9	23-3		
5	1	4.12	69.9	12.9	23-3		
6	1	4.06	69.9	12.9	23-3])	
		Mic	Rd	+b	C.G		
	Avg:	4.09	70.0	12.9	23-3		
	Min:	4.06	69.9	12.9			
	Max:	4.12	70.0	12.9			
	SD:	0.03	0.1	0.0			
	CV%:	0.7	0.1	0.0			

ng Report Opti									
Module Testing - L	ength & Strength	1							
Identifier*: ELS						T T	Lot Limits		
Sub ID :			_		Mode : HV	1	Lot Name	9	Below
	_				Length Uni	it Inch	None	-	Above
Mic *: 4.10			Force D		Test(s):		Print Lot Ve	alue	
S1.No	Sub ID	UHML	ML	U.I	Str	Elg	Amt		
1		1.352	1.139	84.3	41.2	6.9	1206		
2		1.363	1.150	84.4	43.0		1073		
3		1.382	1.176	85.1	44.6		840		
4		1.366	1.160	84.9	42.4	6.8	706		
5		1.381	1.184	85.7	42.9				
6		1.386	1.160	83.7	41.6	6.8	1190		
		UHML	ML	U.I	Str	Elg	Ant		
	Avg:	1.372	1.162	84.7	42.6				
	Min:	1.352	1.139	83.7	41.2	6.8	706		
	Max:	1.386	1.184	85.7	44.6	6.9	1313		
	SD:	0.013	0.016	0.7	1.2	0.1	235		
	CV%:	0.97	1.42	0.83	2.83	0.92	22.27		
-	Strength Date	complex	tahi ragaine	a.		Graph	Sort Re	test E	Print <u>C</u> lose

Module Testing: Micronaire

Strength Data

- Micronaire, in most cases vary widely even within a station, which necessitates bale to bale testing
- Instantaneous information on Micronaire enables to test each bale thereby to optimise Mix on a daily basis

PREMIER HFT Ver 4.0.13 Jesting Report Options					10.00	Ø	×
	Module Testing - Colo	r					
	Identifier * ELS						
	Sub ID:						
	Lot Limits Lot Name		irade: Upland				
		Below r	₹ Enable Arm				
	None	Above '	. Toward Agen	100 C 100 C 100 C 100 C			
	☐ Print Lot Value			Test(s): 0006			
	S1.No Sub ID	Rd(%) +b	C1.Grd				
	1	70.1 12.9	23-3				
	2	70.0 12.9	23-3				
	3	70.0 12.9	23-3				
	4	70.0 12.9	23-3				
	5	70.0 12.9	23-3				
	6	70.0 12.9	23-3				
		Rd(%) +b	C1.Grd				
	Avg:	70.0 12.9	23-3				
	Min:	70.0 12.9					
	Max:	70.1 12.9					
	S.D:	0.0 0.0					
	CV%:	0.1 0.0					
	Color Data comp	letely received					
		Sort B	etest Print	Close Start			

Module Testing: Micronaire and Colour

 A combined report on Micronaire and Colour provides immediate information & greater flexibility to choose the bales