



High Volume Fibre Tester Model: HVT Excellence 22



Features

- Determine the fibre properties such as length, Fineness, Maturity, Strength, Moisture & Color Grade.
- Compact and ergonomic model embedded with microcomputer controlled technology for rapid measurement.
- Less space occupation, less weight and comfortable SS top work space.
- Combined and independent module testing.
- One touch start / shutdown control by single switch button.
- Calibration in both ICC & HVI mode by USDA and any other international calibration cotton.
- Parallel as well as simultaneous operations ensure faster testing.
- More tests can be performed under combined tests mode.
- Flexible report options like date wise, lot wise, cotton type wise as well as consolidated reports.

Technical Data

Operating Modes: HVI and ICC

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Length

Measuring Principle: Optical

Measuring Range: 15 to 45 mm

Numerical Results: 2.5% & 50% SL, UHML, ML (all in inch/mm), UR, UI, SFI, Amount

Strength

Measuring Principle: CRE

Measuring Range: 10 to 50 g/tex

Numerical Results: Bundle Strength in g/tex and Elongation in %

Micronaire

Measuring Principle: Airflow

Measuring Range: 2.0 to 8.0 $\mu\text{g}/\text{inch}$

Fineness

Numerical Results: Micronaire and Maturity Ratio MR %

Moisture

Measuring Principle: Electrical Conductance

Measuring Range: 3.5 to 20%

Numerical Results: Moisture in %

Color

Measuring Principle: Optical

Measuring Range: Rd: 40 to 90+b: 4 to 18

Numerical Results: Reflectance Rd % Degree of Yellowness +b and American upland Cotton Color Grade CG

FQI (Fibre Quality Index) derived from all above characteristics

Sample size: 8.5 to 10.5 gram for Micronaire and one handful for Length, Strength, Moisture & Color

Graphical Results: Fibrogram and Stress-strain curve

Balance capacity: 220 gram; Accuracy: ± 0.01 g

Front-end Language: English

Compressed Air Supply: 6.2 to 7.2 bar dried and filtered air; Consumption: ~ 200 LPM (during test progress only)

Power Supply: Single Phase 220vAC @ 50Hz; Consumption : 250 watts (Excluding printer 300 watts)

Applicable standard(s): ASTM D1447 / D5867 and ISO 2403

Physical Dimensions: Size(WDH) : 1320 x 700 x 1050 mm; Weight : 260 kg (Accessories excluded)

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Scope of Supply

- Main Unit: - 1 No.
- Accessories: Fibrosampler - 1 No., Comb - 2 Nos., Fibrosampler cleaning brush - 1 No., TFT monitor - 1 No., CPU - 1 No., Keyboard and mouse - 1 No., Precision Electronic Balance - 1 No., Isolation transformer (1 KVA) - 1 No., Laser Printer - 1 No., Inlet air tube (3m) - 1 No., Printer Tray - 1 No., Cotton Tray - 1 No., Cotton collecting Box - 6 Nos. and Set of connecting cables - 1 No.
- Tools: Maintenance Toolkit Box - 1 No.
- Spares: Comb - 1 No., Set of System Software CDs - 1 No., Proximity Sensor - 2 Nos., Festo proximity sensor - 1 No., "O" Ring 40 X 3 - 2 Nos., "O" Ring 30 X 4.5 - 2 Nos., FRC cable 10 pin CPU to I/O Board - 2 Nos., FRC cable 26 pin CPU to I/O Board - 2 Nos., Mic Door Spring - 2 Nos., Teflon washer for Nipple assembly - 2 Nos., Car Assembly Spring - 2 Nos. and Color LED fixing nylon screws - 4 Nos.
- Documents: User's guide, Warranty certificate, Test certificate & Calibration certificate.
- Consumables : Standard Calibration cotton for Length & Strength (Pack of 450 g) - 2 Boxes (Each 1 No. of Low & High), Standard Calibration cotton for Micronaire (Pack of 180 g) - 2 Boxes (Each 1 No. of Low & High), Standard Calibration color tiles (Set of 5) - 1 Set.

Pre-Requisites for Installation

Suitably conditioned (65% Relative Humidity atmospheric controlled) Room, Properly earthed and Stabilized single phase 220vAC @ 50Hz supply equipped with 1 KVA online UPS ported at 5 Amps supply socket 2 Nos., Laboratory standard compressed air supply at 8.0 bar (8 kg/cm² / 14.5 CFM / Min. 225 tank capacity) with a throughput of 200 LPM, Test samples and Suitably qualified operator.

Test Result

System Testing Report (HVI Mode)												
Square Textiles, Dhaka												
26-Dec-2022 5:15 pm												
ID : 000015	Party Lot No.: US COTTON				Mill Lot No. :- 10				Variety		: Dyed Cotton	
T. No.	Sample No.	UHML (mm)	ML (mm)	UI (%)	SFI	Str. (g/tex)	Elg. (%)	Amt.	FQI	Mic. (µg/inch)	MR	
1	US COTTON	29.43	24.53	83.85	8.20	32.67	6.56	265	197.40	4.06	0.85	
2	US COTTON	29.57	24.69	83.50	8.00	31.54	6.11	238	194.70	4.00	0.84	
3	US COTTON	28.56	23.54	82.42	9.00	32.37	6.38	233	185.40	4.11	0.85	
4	US COTTON	29.05	24.10	82.96	8.50	31.72	5.81	175	186.90	4.09	0.85	
5	US COTTON	29.36	24.46	83.31	8.20	31.09	6.22	242	186.40	4.08	0.85	
	Avg.	29.19	24.26	83.11	8.38	31.88	6.22	230	190.16	4.07	0.85	
	Min.	28.56	23.54	82.42	8.00	31.09	5.81	175	185.40	4.00	0.84	
	Max.	29.57	24.69	83.50	9.00	32.67	6.56	265	197.40	4.11	0.85	
	SD.	0.40	0.46	0.43		0.64	0.28			0.04		
	CV (%)	1.37	1.90	0.52		2.01	4.50			0.98		

*Technical Data Subject to change without notice.

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At AdLab, we combine expertise in precision engineering with advanced laboratory technology to create innovative and reliable testing instruments. Our team of skilled professionals continuously works on improving product designs, integrating the latest advancements in technology, and ensuring compliance with international quality standards. With a strong focus on research and development, we provide customized solutions that cater to the unique needs of our customers worldwide.

Our Products

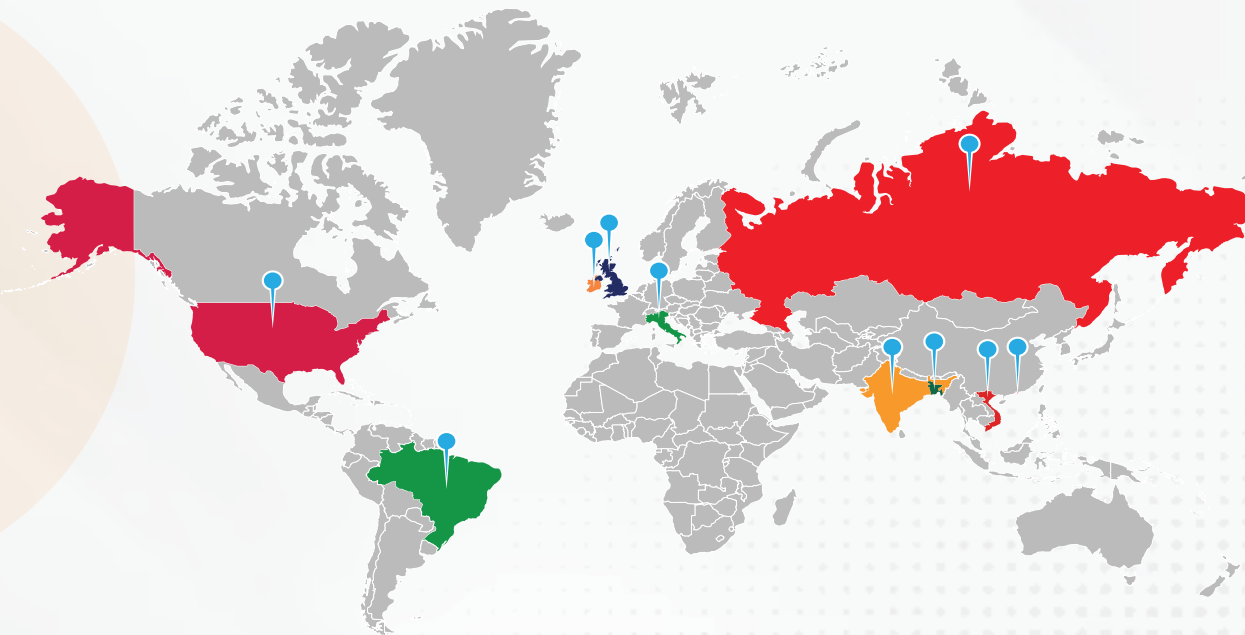
AdLab offers a wide range of high-quality laboratory and textile testing instruments, including Yarn & Fiber Testing Instruments, Laboratory Fume Hood Chambers, Ovens & Incubators, Water Baths, Textile Testing Instruments, Dyeing & Finishing Machines, Ceramic Testing, Tensile Testing, Washers & Dryers, Needle Detectors, and In-House Testing Equipment. Designed for precision and efficiency, our products ensure accurate testing and reliable performance across various industries.

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- ✓ Customized Solutions – We provide tailored solutions to meet specific industry requirements, helping our clients achieve maximum efficiency in their operations.

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