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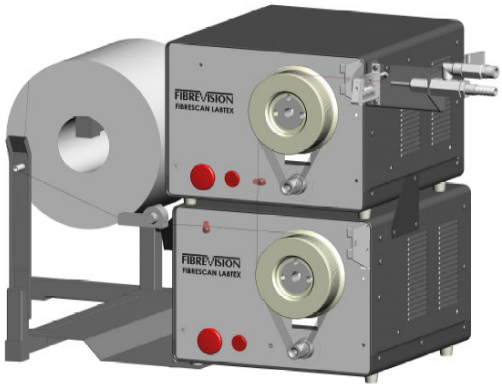
Labtex

Product Characterisation and QC

The Labtex range of dedicated laboratory instruments provides both product Characterisation and high volume QC testing.

All Labtex instruments provide state of the art analysis of the running yarn, with detailed quality data produced in a database format that can be exported into a plant QC system.

A wide range of parameters can be tested on Labtex instruments with up to 4 parameters being tested on one Labtex unit. This provides extensive data on key quality parameters that is not available on any other testing equipment.



Range

Labtex P	Package Unwinding
Labtex PI	Package Unwinding, Interlace, Broken Filaments
Labtex I	Interlace, Broken Filaments
Labtex IR	Interlace Retention, Broken Filaments
Labtex PIR	Package Unwinding, Interlace Retention, Broken Filaments

Cost Benefits

Reduced Process Costs	Process optimisation by full product characterisation
Multi Function Testing	Up to 4 parameters tested on one unit

Quality Benefits

Product Characterisation	Ensures products are fully optimised for application
Extensive Data Analysis	On all Key Quality parameters

Technology

The **Labtex** instruments are made up of a range of advanced technology components including:

Optical Sensors	Used to measure Interlace and Broken Filaments. Measurement accuracy is assured with fully digital analysis and automatic calibration checking.
Tension Sensors	Used for Package Unwinding analysis. These ultra high frequency response sensors are sampled at 1000 times per second allowing the shortest-term variation to be identified.
Yarn Feeds	Transport the yarn accurately at speeds between 200 and 2,000 m/min and allow very accurate dynamic control of yarn stretching.
Signal Processing	Dedicated processing and communication card handles the signal processing, allowing a standard Windows XP PC to be used.
	State of the art signal processing and data analysis software ensures extremely accurate measurements and provides a wide range of statistical data that can be exported to plant QC management systems

Monitoring Excellence

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Labtex Applications			
Labtex Type	Analysis	Main Components	
		Drives	Sensor
Labtex P	Package Unwinding	1	Tension
Labtex PI	Package Unwinding, Interlace Analysis Broken Filaments	1	Tension & Optical
Labtex I	Interlace Analysis, Broken Filaments	1	Optical
Labtex IR	Interlace Retention, Broken Filaments,	2	Optical
Labtex PIR	Package Unwinding, Interlace Retention Broken Filaments	2	Tension & Optical

Labtex Sensors		
Interlace Sensor	**Analysis Options**	Interlace, Broken Filaments
	Range	20 to 1,500 denier
	Measurement	Data acquisition at up to 50kHz
	Calibration	ISO Calibration, including automatic contamination compensation with automatic condition monitoring and warning when recalibration is required
Tension Sensor	**Analysis Options**	Package Unwinding
	Range	0 to 200g with 0.1g resolution
	Frequency Response	450Hz with Data acquisition at 1kHz
	Calibration	The sensor is automatically zeroed prior to each test and facilities for software checking and calibration of gain are provided

Labtex Yarn Drives	
Yarn Transport	Godets with capstan wrap. The two godets are driven by a 0.37kW inverter controlled synchronous motor.
Speed Range	200 to 2,000 m/min (normal test speed 400 m/min), digital set-points down loaded to inverter from PC
Waste Disposal	A high efficiency compressed air suction system delivers the waste yarn to the rear of the unit for collection.
Wrap Protection	A non-contact end break detector is located between the godet and the suction system. When a yarn break is detected the drive motor is stopped
Dimensions	780mm wide (including Creel) + Suction (about 250mm), 530mm deep x 500 high (excluding Creel). Weight 56kg
Creel	400mm diameter x 300mm long, different tube diameters are accommodated with an adjustable balloon eyelet

Labtex Services Required	
Computer	A PC running Windows 2000 or XP Pro is required to run the application software; the minimum PC specification is Pentium 2Ghz with 512mb Ram, XVGA graphics. A free PCI slot is also required.
Power	110 or 240 volt AC 50-60 Hz, Connected Load = 1000W, Typical Running Load 200W
Compressed Air	Clean dry compressed air should be supplied at a minimum of 5 bar. The volume of air used will be approximately 40m³/hr.

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