



Loepfe



LABORATORY SOLUTIONS

LabMaster FIBERMAP

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COTTON CLASSING

+ YOUR ADDED VALUE

The revolutionary test instruments from Loepfe follow a new ground-breaking philosophy. With the integration of different testing devices in one system, the LabMaster series make laboratory measurements more efficient in terms of time, resources and results.

LabMaster FIBERMAP has been developed to test raw cotton for the evaluation of classing parameters which are important from bale management to the yarn quality. The instrument also delivers comprehensive data for the laydown selection and process control in regard to sugar stickiness.

LabMaster TOP serves as the data system connecting FIBERMAP to the decision makers desks. All test results are synchronized regularly to make them available for further evaluations by value-added reports which are clear and understandable. LabMaster TOP reports focus on data analysis which is required to deliver consistent quality in the spinning mill.

+ MEETS YOUR NEEDS

Cotton classing with integrated stickiness grading

- Tests all cotton classification values such as: length, strength, elongation, Micronaire, maturity, fineness, color grade and trash fully automatically
- Customer-proven, reliable (100%) measurement and grading of all sources of sugar stickiness ensures proper laydown selection
- Test results independent from operator influence due to highly automated operation
- Classing module is calibrated with international standard materials (HVI- and ICC-mode)
- Sample throughput of 200 samples per 8 hour shift fulfills the requirements of spinning mills

LabMaster[®]
TOP



LabMaster[®]
FIBERMAP



Spinning and preparation process

+ MEASURING PRINCIPLES

Classing

- Automatic sampling of length/strength and color/trash by inserting a cassette
- Pulling a comb for length/strength measurement
- Optical measurement of length/color/trash
- Strength measurement by clamping the fiber beard at a distance of 1/8 inch
- Airflow resistance measurement for Micronaire and maturity by double compression system
- Resistance measurement of the moisture in the cassette
- Tests on raw cotton only

Stickiness

- Subsample of 3.5g is formed into a web by a carding system
- A 12 m long web tested for stickiness between two heated rollers
- Analysis by laser to count, classify and grade the sticky points
- Tests on raw cotton up to finisher draw-frame sliver

+ INSTRUMENT DETAILS



Comb



Card



Double compression



Cassette



Heated rollers

+ LabMaster TOP

The Management Cockpit

- Tool for laboratory, quality and spinning mill management
- Part of standard delivery of FIBERMAP
- Automatic synchronization
- Same operation philosophy as FIBERMAP
- Back-up system for test results and instrument log-files
- Value-added reporting to support decision making
 - Sample reports
 - Trend analysis
 - Lot reports
 - Daily summary reports
- Customer specific sample identification for:
 - Machines
 - Lots
 - Material
 - Customers
 - Operators
 - Suppliers
 - Certifications

+ SERVICES AND CUSTOMER SUPPORT

- Qualified operation and individual application training
- Customized training of quality management
- Support for data analysis and interpretation
- Testing services in Loepfe testing facilities for fiber and yarn
- Pre-sales support regarding applications and yarn types
- On-site and remote after-sales support for smooth operation and increase of product life time
- Consulting service for laboratory processes and management



Lot report

Length
Short fibers
Strength
Elongation
Color
Trash
Moisture

Easy and intuitive user interface

Micronaire
Fineness
Maturity

Ambient conditions

Stickiness



LabMaster[®]
FIBERMAP

Loepfe

Loepfe is part of the SavioGroup and the world's leading manufacturer of electronic control systems for the textile industry. Machine manufacturers as well as spinning and weaving mills around the world rely on our innovation at the highest level. Built to be on top.

SPINNING SOLUTIONS
BUILT TO SEE MORE

WEAVING SOLUTIONS
BUILT TO CONTROL

LABORATORY SOLUTIONS
BUILT TO MAP



Connect with the Loepfe world



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Subject to technical modifications

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