Specifications

iQ2

Technical Data

Basic Installation
- Single Module to test all Evenness properties

Additional Options
- Hairiness Index (Hi)

Application range
- Spun Yarn, Roving & Sliver: 4 tex to 12 ktex

Measuring principle
- Evenness: Capacitance
- Hairiness Index: Optical

Sample Presentation
- Yarn: Manual
- Roving / Sliver: Manual

Analysis Reports
- Spectrogram (Peak & Drafting Wave) Analysis
- VI Curve Analysis

Ambient Condition
- Relative Humidity: 65 ± 2%
- Temperature: 21 ± 1°C (70 ± 2°F)
  (27 ± 1°C (80 ± 2°F) for Tropical Conditions)

Power consumption
- Single Phase: 1KVA, 2 KVA UPS

Compressed air consumption
- 13 m³/hr at 6 Bar

Subject to change without prior notice

iQ2™
More than an Evenness Tester. The Quality Expert

Testing Unit with Software, PC and Printer
**“Unique” Features**

**Hairiness Index**

- The traditional Hairiness index is used for trading purpose, which measures hair irrespective of its length over 1 cm yarn length

**Spectrogram Analysis**

- Automatically identifies faulty machinery component and backtracks faults in the process up to Carding department with more than 500 gearing plans for Cotton, Man-made fibre and Worsted machinery

**Parameters Measured**

**Numerical Results**
- U%, CVm at various cut length
- Imperfections [12 levels]
- Index of Irregularity
- Relative Count
- Hairiness Index and sh

**Graphical Results**
- Mass & Hair Diagram
- Spectrogram [2D, 3D]
- VL Curve [2D, 3D]
- Histogram
- Trend Analysis

**Exceptions**

- The Quality expert equips the user with knowledge by highlighting the exceptions during testing which prompts the user to look into specific areas

**Variance Length Curve Analysis**

- The deviation in Variance Length curve is marked and the specific department which is responsible for the high CV is highlighted automatically

**Drafting Wave Analysis**

- The draft zone responsible for the drafting wave is tracked automatically, with details of draft enabling the user to initiate corrective action viz: draft setting, draft distribution etc.

**Trend and Comparison**

- The unique comparison chart enables to compare all machines in a department and machines allocated to a Count group

**Additional Features**

- Mill Statistics Percentage (MSP) is available for Quality levels
- Inspection [Stop] Facility for any one of imperfections Thin/Thick/Neps with selectable sensitivity levels
- Overall tests can be 1000 (that is Maximum of 20 samples and 50 readings per sample or 10 samples and 100 readings per sample)
- Economic & Cost Effective